Springwell Solar Farm

Environmental Statement
Appendix 7.11: Important Hedgerow Survey

Volume 3
[Tracked]

APFP Regulation 5(2)(a)

Planning Act 2008

Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

EN010149/APP/6.3.2
Deadline 3
~~November~~ August 2025~~4~~
Springwell Energyfarm Ltd

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1. Introduction

1.1. Purpose of the report

1.1.1.1. This document has been updated at Deadline 3 to clarify the survey method, as the entire hedgerow length was not surveyed for each hedgerow which does not quite equate to a full formal Hedgerows Regulations 1997 survey. Hedgerows previously identified as 'likely' to be ecologically important have now been referred to in this updated document as 'potentially' important. The document references have not been updated from the original submission. Please refer to the **Guide to the Application [EN010149/APP/1.2]** for the list of current versions of documents.

~~1.1.1.1.~~1.1.1.2. This report presents the results of hedgerow surveys carried out of hedgerows potentially affected by the proposed Springwell Solar Farm (the 'Proposed Development'), which is located between the villages of Blankney, Digby and Temple Bruer, Lincolnshire.

~~1.1.1.2.~~1.1.1.3. **Figure 1**, shows the 48 hedgerows which are proposed to be affected, their importance, and also other hedgerows surveyed.

~~1.1.1.3.~~1.1.1.4. The objectives of the hedgerow surveys were to:

- identify any potentially ecologically important hedgerows ~~in accordance~~ with regards to the Hedgerows Regulations 1997 **[Ref-3]**;
- to inform works design in order to avoid and mitigate impact; and
- to record woody species and structural features of each hedgerow to inform re-planting/restoration works where required.

~~1.1.1.4.~~1.1.1.5. The historical importance of hedgerows proposed to be affected by works, in accordance with the Hedgerows Regulations 1997 **[Ref-3]** is also briefly referenced in this report (with full details presented in **ES Volume 3, Appendix 9.1: Archaeological Desk Based Assessment [EN010149/APP/6.2]).**

1.2. Ecological context

1.2.1.1. The survey area is located on land surrounding the villages of Blankney, Scopwick, and Ashby de la Launde in the district of North Kesteven, Lincolnshire. The survey area was dominated by agricultural land and improved grassland with accompanying hedgerows, interspersed with multiple small to medium sized areas of broadleaved woodland. Ditches intersect some of the agricultural fields, mostly in Springwell East, although most were dry at the time of survey.

1.2.1.2. The surrounding landscape is largely arable with a mixture of villages, farm complexes, woodland, hedgerows and some scattered residential properties, as well as the RAF Digby military base to the north-west.

1.3. Proposed Development

1.3.1.1. The Proposed Development comprises the construction, operation and maintenance of Solar Photovoltaic (PV) generating modules, energy storage facilities, and grid connection infrastructure, across a proposed site in North Kesteven, Lincolnshire.

1.3.1.2. The Proposed Development is located within the administrative boundary of North Kesteven District Council and Lincolnshire County Council.

1.4. Legislation

1.4.1.1. The Hedgerow Regulations 1997 **[Ref-3]** protect hedgerows which are deemed 'Important' for wildlife and landscape reasons and also for historic/cultural 'Importance'. The Regulations define the protection afforded to Important hedgerows which are protected from removal (up-rooting or otherwise destroying). Under the Regulations it is illegal to damage certain hedgerows without permission of the Local Planning Authority.

1.4.1.2. Ecologically important hedgerows are defined by certain 'wildlife and landscape' criteria under the regulations and generally have a diversity of woody species (criteria features are listed in **Section 2.2** below).

2. Methodology

2.1. Desk study

2.1.1.1. Prior to the field surveys, the **ES Volume 3, Appendix 7.1: Preliminary Ecological Assessment [EN010149/APP/6.3]**, aerial imagery and Ordnance survey maps were reviewed.

2.1.1.2. The number of hedgerow sections (divided at 'nodes' and/or by proposed works locations), habitat connections and any public rights of way were noted.

2.1.1.3. **ES Volume 3, Appendix 9.1: Archaeological Desk Based Assessment [EN010149/APP/6.2]** was reviewed for the historical importance of hedgerows which are proposed to be affected by works.

2.2. Hedgerow survey

2.2.1.1. All surveys were undertaken by ecologists experienced in undertaking hedgerow and botanical surveys.

2.2.1.2. In July and August 2023, surveys were carried out of the sections of hedgerows which could potentially be directly affected by works, as they were in the vicinity of proposed cable installation and access works.

2.2.1.3. In May 2024, surveys were carried out of hedgerows which were in the vicinity of the 'Grid Connection Corridor'. As this is where underground cable is proposed to be installed to connect from the Proposed Development to the proposed National Grid Navenby Substation.

2.2.1.4. Proposed vegetation removal plans were then reviewed and cable and access road routes amended in order to avoid important hedgerows where possible and to reduce the overall amount of hedgerow loss. The vegetation removal plans were subsequently updated in July 2024. Of the hedgerows which were proposed to be affected, ten hedgerows were not previously surveyed - these ten hedgerows were surveyed on 22 and 23 August 2024.

2.2.1.5. The design was again updated again in September 2024 to further reduce the amount of hedgerow removal proposed (from c.1,860m to c.1,249m). Of the hedgerows proposed to be affected by the updated design, five hedgerows had not been previously surveyed – these were surveyed on 10 October 2024.

2.2.1.6. The survey methodology ~~followed~~ was guided by the Hedgerow Survey Handbook ~~guidelines~~ **[Ref.2]**. To define the lengths of hedgerow to be surveyed, the end points of a 'unit' were identified. An end point, or node, is:

- any point of connection between two, or more, hedgerows or to other features e.g. fences, walls, ditches, roads;
- the point at which a hedgerow stops and there is a gap of more than 20m to the next hedgerow (e.g. where the hedgerow ends in the middle of a field); and
- the point at which the hedgerow links to a woodland or other semi-natural habitat such as a pond.

2.2.1.7. H~~All h~~edgerows surveyed were assessed to determine their likely i~~I~~mportance under the wildlife and landscape criteria of the Hedgerows Regulations 1997 **[Ref-3]**. ~~, a~~ A standard schedule of information was collected, which recorded:

- a count of the woody species in ~~an average~~a 30m stretch of hedge;
- observations on hedge features;
- noting of circumstances that modify thresholds for hedgerow qualification; and
- factors leading to immediate qualification.

2.2.1.8. Hedgerow features recorded comprised:

- Number and length of any gaps;
- Presence of banks, walls, and ditches;
- Presence, number and spacing of standard trees;
- Adjacent land use and proximity of ecological features such as ponds, woodlands, or parallel hedgerows, and any connections to other hedgerows not evident on existing maps;
- The presence and abundance of ground flora species listed on Schedule 2 of the Hedgerows Regulations 1997 **[Ref-3]** within the ~~representative~~ 30m sections surveyed up to 1m from the hedgerow base;
- Evidence of past or recent management; and
- Evidence of use by animal species, in particular protected species.

2.2.1.9. Hedgerow condition assessments were carried out during the PEA surveys **[Ref-1]**. Each hedgerow within the area was assessed under condition assessment criteria as detailed within the Biodiversity Metric 4.0 **[Ref-4]** which was the metric used at that time (it has since been replaced by the Statutory Metric in February 2024). The condition assessment results are ~~shown~~ summarised in **Annex 1**.

2.2.1.10. The Hedgerows Regulations 1997 **[Ref-3]** states *"Against the wildlife and landscape criteria for determining 'Important' hedgerows as detailed within Schedule 1, Part 2 of the Hedgerows Regulations 1997 (see below):*

2.2.1.11. *"Subject to sub-paragraph (2), the hedgerow includes—*

- *(a) at least 7 woody species;*
- *(b) at least 6 woody species, and has associated with it at least 3 of the features specified in sub-paragraph (4);*
- *(c) at least 6 woody species, including one of the following: black-poplar (Populus nigra ssp betulifolia); large-leaved lime (Tilia platyphyllos); small-leaved lime (Tilia cordata); wild service-tree (Sorbus torminalis); or*
- *(d) at least 5 woody species, and has associated with it at least 4 of the features specified in sub-paragraph (4),*
- *and the number of woody species in a hedgerow shall be ascertained in accordance with sub-paragraph (3).*
- *Where the hedgerow in question is situated wholly or partly in the county (as constituted on 1st April 1997) of the City of Kingston upon Hull, Cumbria, Darlington, Durham, East Riding of Yorkshire, Hartlepool, Lancashire, Middlesbrough, North East Lincolnshire, North Lincolnshire, Northumberland, North Yorkshire, Redcar and Cleveland, Stockton-on-Tees, Tyne and Wear, West Yorkshire or York(14), the number of woody species mentioned in paragraphs (a) to (d) of sub-paragraph (1) is to be treated as reduced by one*" **[Ref-3]**.

2.2.1.12. The Proposed Development is located south of Lincoln, in the North Kesteven district, and therefore the number of woody species required (as stated above) is not reduced.

2.2.1.13. *"The hedgerow would also be important if it:*

- *is adjacent to a bridleway or footpath, within the meaning of the Highways Act 1980(15), a road used as a public path, within the meaning of section 54 (duty to reclassify roads used as public paths) of the Wildlife and Countryside Act 1981(16), or a byway open to all traffic, within the meaning of Part III of the Wildlife and Countryside Act 1981(17), and*
- *includes at least 4 woody species, ascertained in accordance with paragraph 7(3) and at least 2 of the features specified in paragraph 7(4)(a) to (g)"* **[Ref-3]**.

2.3. Limitations

2.3.1.1. For most of the hedgerows surveyed, only the specific sections of hedgerow proposed to be impacted were surveyed rather than the whole hedgerow. The method to identify important hedgerows under the Hedgerows Regulations 1997 requires a 30m section to be surveyed for each 100m i.e. for hedgerows between 30m and 100m in length, the central 30m are surveyed to assess the number of woody species.

2.3.1.2. For longer hedgerows, the same principle applies to sections: if a hedgerow is between 100m and 200m long, the central 30m of each half are surveyed, and for hedgerows over 200m, the central 30m of each third are surveyed. As the survey method did not follow the Hedgerows Regulations 1997 guidelines, the data can only provide an indication of whether the hedgerow could be deemed to be 'potentially' important as the sections sampled may not have been representative of the entire hedgerow.

2.3.1.3. However all hedgerows (entire length) had already been subject to UK Habitat surveys. Although only providing information on 'potential' for important hedgerows, the results of this 'Important Hedgerow' survey report provides additional information and additional context which has been used to inform the assessment and mitigation proposals.

~~2.3.1.3.~~2.3.1.4. A complete list of plants has not been provided. The absence of evidence of any particular plant species should not be taken as conclusive proof that the species is not present or that it will not be present in the future.

~~2.3.1.4.~~2.3.1.5. The hedgerow surveys in August and October were undertaken at a sub-optimal period for the identification of ground flora (the optimal period for hedgerow survey is May – July), to capture woody species in flower and spring ground flora. However, the timing was not considered a significant constraint to the identification of woody species and most ground flora species.

~~2.3.1.5.~~2.3.1.6. In assessing the importance of a hedgerow, the potential under-recording of ground flora becomes relevant only where the hedgerow would require the possession of three or more woodland species in the ground flora as an associated 'feature' to qualify as 'important', or where a protected plant species may be present within the ground flora. For surveys in August and October some ground flora species may not be visible. For surveys carried out in August and October, where the presence of three ground flora species as a 'feature' was a deciding factor on whether the hedgerow would be deemed important or not, using the precautionary principle, it was assumed that this 'feature' was potentially present. This was only a deciding factor for one hedgerow 'H106' which was surveyed on 10 October 2024 (location in Springwell East shown in **Figure 1**). This hedgerow had six woody species ~~per~~ in 30m but only had two associated features (a ditch for over half its length and four connection points). It was adjacent to a PRoW however for this the 'four connection points' feature does not

count. If hedgerow H106 had three woodland ground flora species as a qualifying feature then it would be deemed as important. It was therefore classed as potentially 'important' as a precautionary measure.

~~All hedgerows were accessed for full survey. Except for the potential for under-recording of ground flora by surveys undertaken in August and October there are no other known significant limitations to the surveys. The potential for under recording of ground flora species, for those hedgerows surveyed outside of the optimal survey period, was accounted for by assuming that the three qualifying ground flora species were present (even though not seen) where this was a deciding factor on whether the hedgerow was deemed important. This use of the precautionary principle by deeming a 'potentially' important hedgerow as important for reasons above has only been applied to one hedgerow (H106) as discussed above.~~

3. Results

3.1. Hedgerow results

3.1.1.1. Over 100 hedgerows were surveyed, of which 17 hedgerows have been deemed likely to be ~~ecologically~~ 'potentially important' under the Hedgerows Regulations 1997 **[Ref-3]** (~~deemed as 'ecologically' important~~ based on wildlife and landscape criteria). The hedgerows which were not considered likely to be deemed ecologically important were limited in their woody species composition (less species-rich) and/or did not meet the required features criteria.

3.1.1.2. As detailed in **ES Volume 3, Appendix 9.1: Archaeological Desk Based Assessment [EN010149/APP/6.2]** 20 historic field boundaries have been identified within the Order Limits which qualify as 'important' for historic reasons. Five of these are parish boundaries, three bound non-designated historic assets and 12 represent pre-parliamentary enclosure field systems.

3.1.1.3. Of the c. 48 sections of hedgerow which are proposed to be affected by works, 10 of these hedgerows have been deemed as likely to be ecologically 'potentially important' and a further two are of historic 'importance' as they represent pre-parliamentary enclosure field systems. The location of the ecologically and historically important hedgerows is shown in **Figure 1** and details are summarised in **Table 1** and **Table 2** below. Details of all the hedgerows surveyed are provided in **Annex 1**.

3.1.1.4. A hedgerow is defined as any boundary line of trees or shrubs over 20m long and less than 5m wide, and where any gaps between the trees or shrub species are less that 20m wide **[Ref-2]**. Some of the field boundaries surveyed did not qualify as hedgerows – these are also shown on **Figure 1**. This was either because they were stone walls, no woody species were present, or because gaps between woody species were more than 20m wide.

3.1.1.5. Most hedgerows were predominantly composed of hawthorn (*Crataegus monogyna*) and blackthorn (*Prunus spinosa*). Aso frequently found were field maple (*Acer campestre*), wych elm (*Ulmus glabra*), elder (*Sambucus nigra*), dogrose (*Rosa canina*) and ash (*Fraxinus excelsior*). Occasional species included dogwood (*Cornus sanguinea*), wild cherry (*Prunus avium*), wild privet (*Ligustrum vulgare*) and hazel (*Corylus avellana*). Spindle (*Euonymus europaeus*) and wayfaring tree (*Viburnum lantana*) were also found but rarely.

3.1.1.6. Hedgerow trees, where present, were mostly ash and common oak (*Quercus robur*). Beech (*Fagus sylvaticus),* sycamore (*Acer psueudoplatanus*) and poplar sp. (*Populus* sp.) were occasional. Other hedgerow trees less often found included sweet chestnut (*Castanea sativa*) and lime spp. (*Tilia* spp.).

3.1.1.7. The majority of the hedgerows surveyed were deemed to be of 'Good' or 'Moderate' condition, in accordance with the Biodiversity Metric 4.0 **[Ref-4]** condition assessment due to meeting the minimum criteria out of the 10 favourable conditions with no more than two or three failures, as appropriate. The failed hedgerow criteria were either based on the hedgerow size requirements, gaps present and/or age class.

3.1.1.8. The results of the hedgerow surveys undertaken have been mapped within **Figure 1**. The hedgerow survey details are provided within **Annex 1**.

Table 1 Details of ~~ecologically~~ 'potentially important' hedgerows which are likely to be affected by works

Hedgerow reference	Number of woody species in 30m sections surveyed	Potentially i~~I~~mportant hedgerows and justification	BNG condition
H4	Six species ~~per 30m~~: Hawthorn, blackthorn, damson, dogrose, field maple, ash.	Yes for ecological reasons only: Although only six species, it does quality as important as it also meets at least three of the seven associated feature criteria, these are: limited gap presence, presence of a ditch for over half its length and presence of mature (standard) trees on average every 50m.	Good
H8	Six species ~~per 30m~~: Hawthorn, dogrose, field maple, ash, elder, sycamore.	Yes for ecological reasons only: Six species and at least three criteria: limited gap presence, presence of a parallel hedgerow within 15m and the presence of mature (standard) trees on average every 50m.	Good
H27	Eight species: ~~per 30 m:~~ Blackthorn, hawthorn, hazel (*Corylus avellana*), wild privet, wayfaring tree (*Viburnum lantana*), elder, dogwood, field maple.	Yes for ecological reasons only: H27 contains over seven woody species, which is the minimum woody species requirement as per the Hedgerow Regulation criteria.	Good
H80	Six species ~~per 30 m~~: Ash, hawthorn, wych elm, dogrose, elder, beech (*Fagus sylvatica*).	Yes for ecological reasons only: Six species and at least three criteria: limited gap presence, presence of a ditch for over half its length, the presence of a parallel hedgerow within 15m and the presence of mature (standard) trees on average every 50m.	Good
H81	Six species ~~per 30 m~~: Hawthorn, beech, sweet chestnut, dogrose, wych elm, ash.	Yes for ecological reasons only: Six species and at least three criteria: limited gap presence, presence of a parallel hedgerow within 15m and the presence of mature (standard) trees on average every 50m.	Good

Hedgerow reference	Number of woody species in 30m sections surveyed	Potentially i~~I~~mportant hedgerows and justification	BNG condition
AP-01	Seven species: Oak, elder, blackthorn, sycamore, dogrose, beech, hawthorn (also wych elm, ash, field maple).	Yes for ecological reasons only: Seven species ~~per~~ in 30m.	Good
H83	Seven species ~~per 30 m~~: Beech, elder, elm, hawthorn, field maple, oak, willow sp. (also small leaved lime, wild privet, dog rose).	Yes for ecological reasons only: Seven woody species were identified ~~per~~ in 30m (including small leaved lime).	Moderate
H88	Seven species ~~per 30 m~~: Ash, blackthorn, elder, elm, hawthorn, wild privet, rose and white beam.	Yes for ecological reasons only: Seven woody species ~~per~~ in 30m.	Moderate
H99	Seven species ~~per 30 m~~: Field maple, blackthorn, hawthorn, rose sp., dogwood, elder, cherry (also damson and ash).	Yes for ecological reasons only: Seven woody species ~~per~~ in 30m.	Good
H106	Six species ~~per 30m~~: Hawthorn, ash, wild privet, white poplar, blackthorn, dog rose.	Potentially important ~~(assumed as important)~~ for ecological reasons: Six woody species and two associated features criteria: a ditch for more than half its length and four or more connections (connects to woodland). No qualifying woodland ground flora species were visible however the survey was undertaken on 10 October, which is sub-optimal survey timing, therefore woodland ground flora have been assumed as present as a precaution.	

Table 2 Details of the historically 'important' hedgerows – which are likely to be affected by works

Hedgerow reference	Woody species	Important hedgerows justification	BNG condition
H24	Hawthorn, elder, ash, dog rose, blackthorn	Yes for historic reasons only as it represents pre-parliamentary enclosure field systems.	Good
H26	Hawthorn, dogwood.	Yes for historic reasons only as it represents pre-parliamentary enclosure field systems.	Good.

4. Conclusion

4.1.1.1. Over 100 hedgerows were surveyed, of which 17 have been deemed likely to be ~~ecologically~~ potentially 'important' under the Hedgerows Regulations 1997 **[Ref-3]** (under wildlife and landscape criteria). Although as the survey method did not follow the Hedgerows Regulations 1997 guidelines, the data can only provide an indication of whether the hedgerow could be deemed to be 'potentially' important as the sections sampled may not have been representative of the entire hedgerow.

4.1.1.2. 20 field boundaries within the Order Limits have also been deemed historically 'important' under the Hedgerows Regulations 1997 **[Ref-3]** (under historical criteria).

4.1.1.3. The proposed works have been designed to minimise impacts to hedgerows and hedgerow trees where possible, especially those hedgerows deemed likely to be important. Of the c. 48 sections of hedgerow which are proposed to be affected by works, 10 of these hedgerows have been deemed as ~~ecologically~~ potentially 'important' and a further two hedgerows as historically important.

4.1.1.4. The potential for under recording of ground flora species, for those hedgerows surveyed outside of the optimal survey period, was accounted for by assuming that the three qualifying ground flora species were present (even though not seen) where this was a deciding factor on whether the hedgerow was deemed important. This use of the precautionary principle by deeming a 'potentially' important hedgerow as important for reasons above has only been applied to one hedgerow (H106).

4.1.1.5. All hedgerows were relatively mature with evidence of long-term management in the form of flailing, some hedgerows also have evidence of historical hedge-laying. The maintenance of 10m buffers from field boundaries is considered sufficient to protect hedgerow and hedgerow tree root zones, as secured in the **Design Commitments [EN010149/APP/7.4].** Where possible, hedgerows, which are to be affected by works, should be reinstated with like-for-like species and features (such as ditches, banks and tree standards) as soon as possible (in the next planting season) after works.

5. References

- **Ref-1**: RSK Biocensus (2023) Springwell Solar Farm: Preliminary Ecological Appraisal Report. 2483765. RSK Biocensus, Coventry.
- **Ref-2**: DEFRA (2007) Hedgerow survey handbook: a standard procedure for local surveys in the UK. 2nd edition. London: DEFRA.
- **Ref-3**: Hedgerows Regulations 1997: UK Statutory Instruments 1997. No. 1160. Schedule 1. Available online: https://www.legislation.gov.uk/uksi/1997/1160/schedule/1/made
- **Ref-4**: DEFRA (2023) Biodiversity Metric 4.0 - Technical Annex 1: Condition Assessment Sheets and Methodology. March 2023. Natural England Joint Publication JP039. Available online: https://publications.naturalengland.org.uk/publication/5850908674228224**Ref-5**: Collins, J. (ed.) (2016) Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edn). The Bat Conservation trust. London.
- **Ref.6**: Institute for Environmental Assessment (1995). Guidelines for Baseline Ecological Assessment. E & F Spon, London.

Figure 1: Hedgerow Survey Results

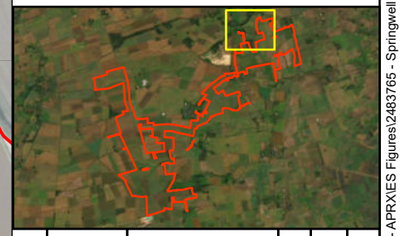
Application Document Ref: EN010149/APP/6.3
Planning Inspectorate Scheme Ref: EN010149

LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No



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01	NOV 2024	DCO SUBMISSION	RSK	RSK	EDF

Springwell Solar Farm

DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 1 OF 16

PINS REFERENCE NUMBER:
EN010149/APP/6.3

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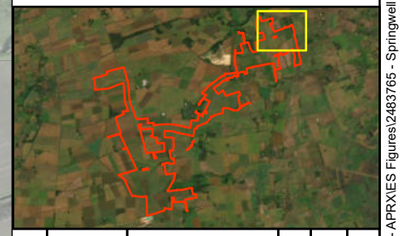
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No



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Springwell Solar Farm

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ENVIRONMENTAL STATEMENT
VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 2 OF 16

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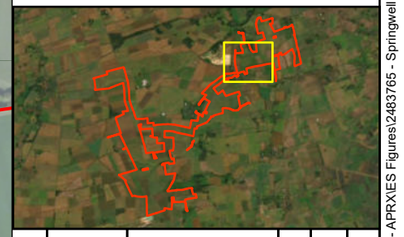
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No
- No Hedge



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REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 3 OF 16

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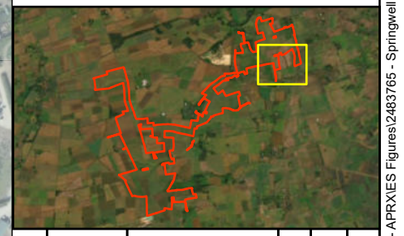
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No



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01	NOV 2024	DCO SUBMISSION	RSK	RSK	EDF

Springwell Solar Farm

DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 4 OF 16

PINS REFERENCE NUMBER:
EN010149/APP/6.3

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Metres
Scale: 1:6,000 @ A3

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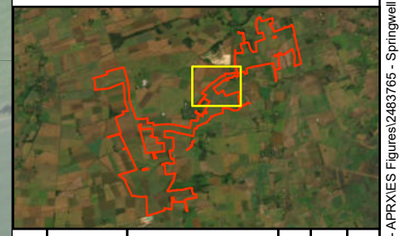
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No
- No Hedge



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Springwell Solar Farm

DOCUMENT:
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VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 5 OF 16

PINS REFERENCE NUMBER:
EN010149/APP/6.3

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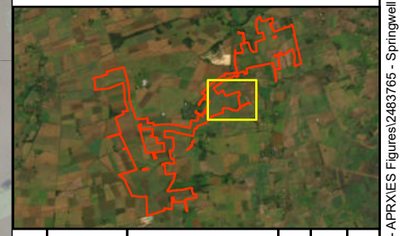
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No
- No Hedge
- Historic Hedge



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DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 6 OF 16

PINS REFERENCE NUMBER:
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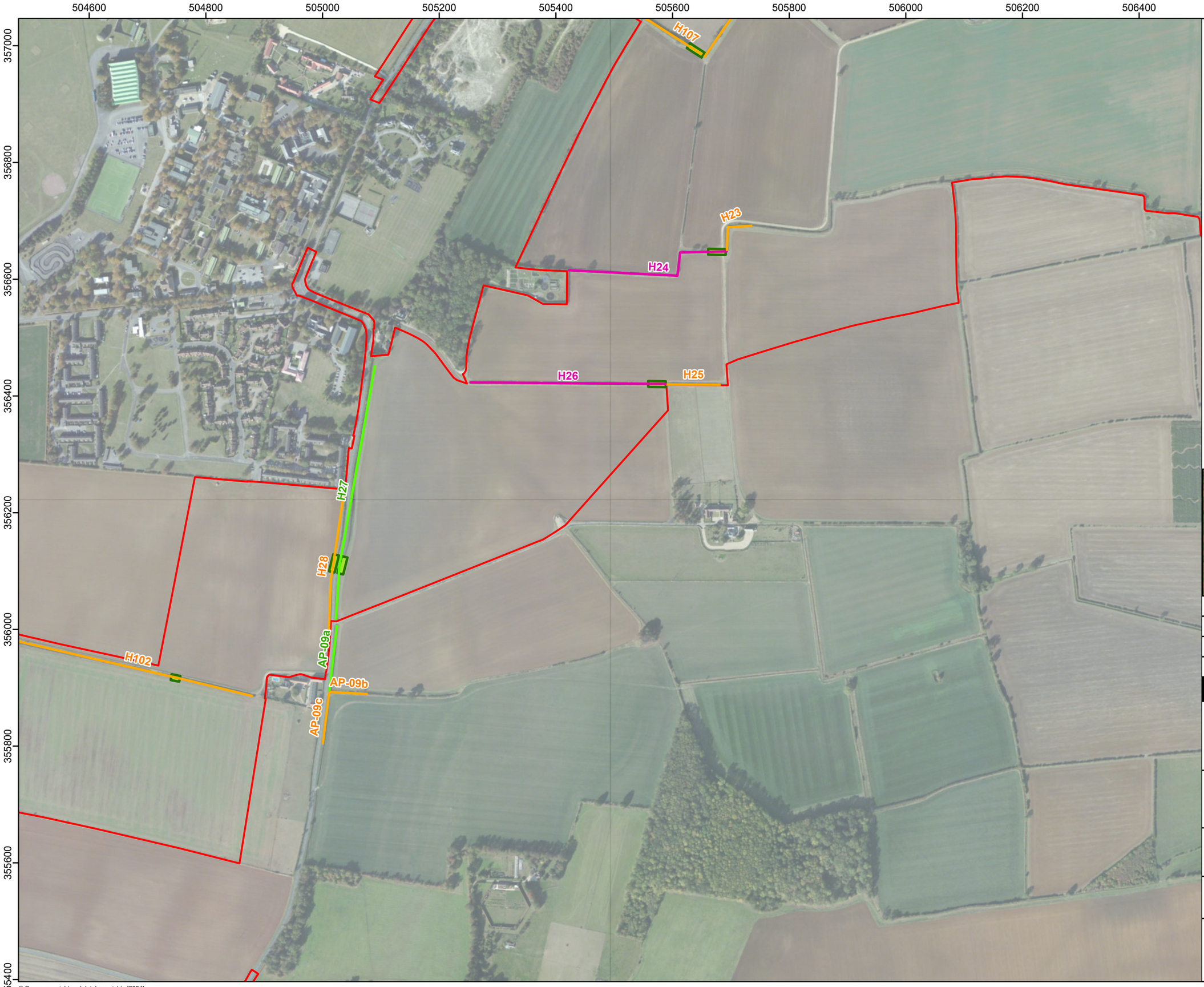
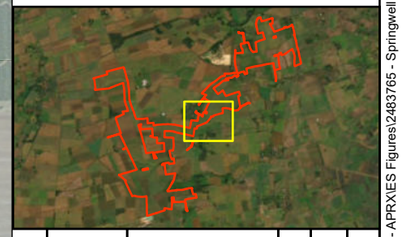


LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No
- Historic Hedge



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REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 7 OF 16

PINS REFERENCE NUMBER:
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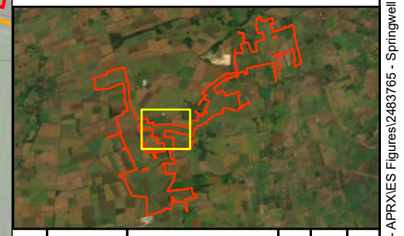
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- No
- No Hedge



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Springwell Solar Farm

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VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 8 OF 16

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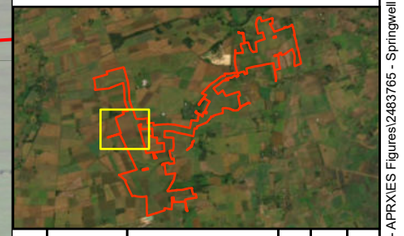
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No
- No Hedge



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Springwell Solar Farm

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REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 9 OF 16

PINS REFERENCE NUMBER:
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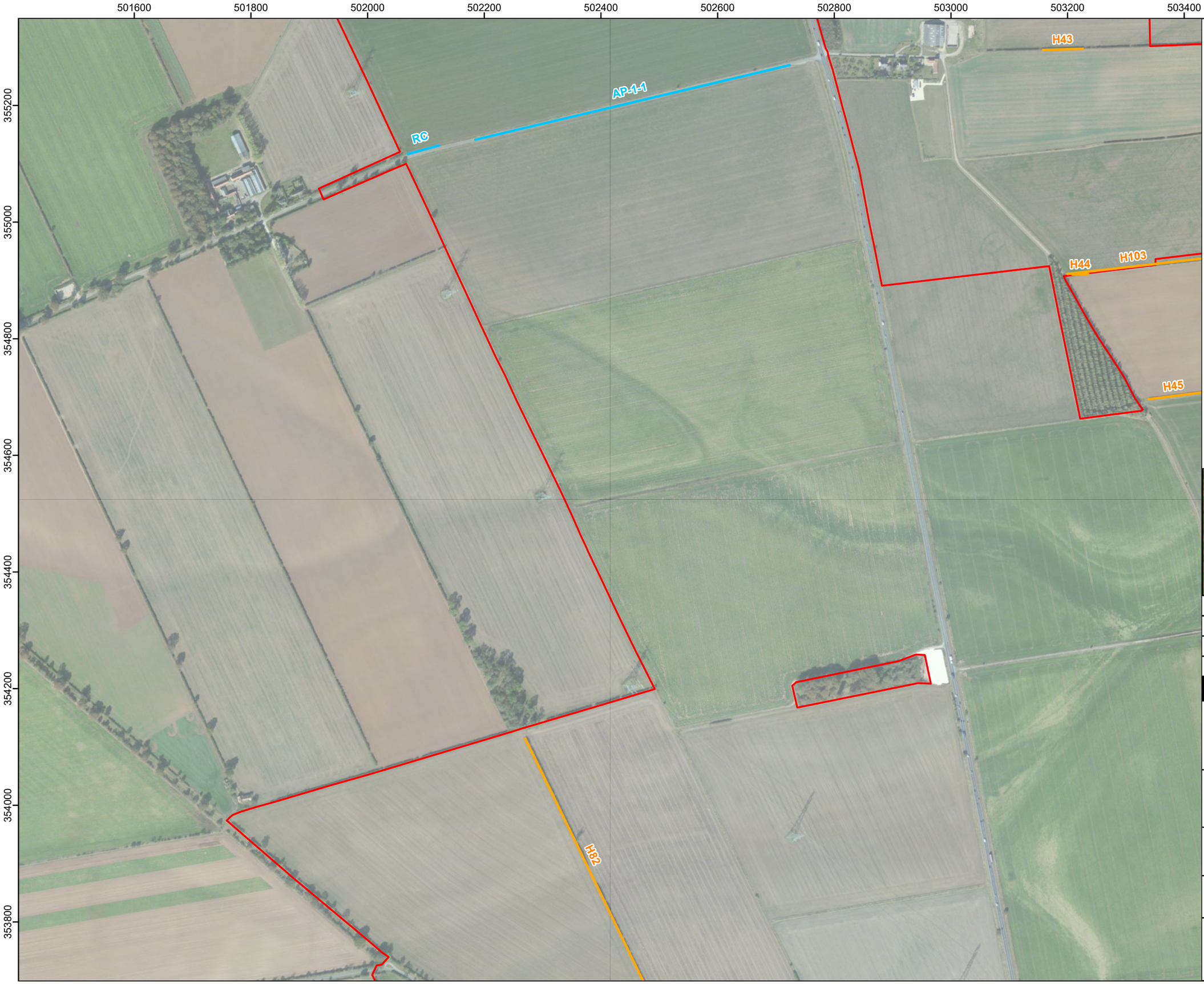
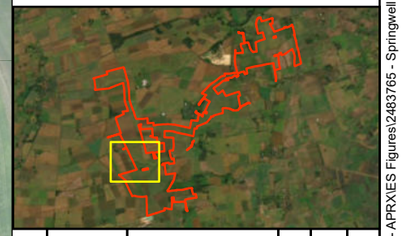


LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- No
- No Hedge



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REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 10 OF 16

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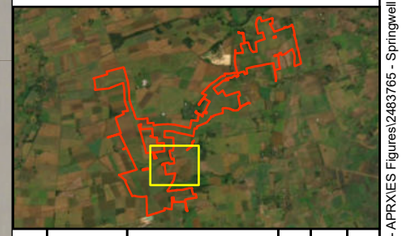
LEGEND:

Order Limits

Proposed Indicative Location for Vegetation Removal

Important Hedgerow

No



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ENVIRONMENTAL STATEMENT
VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 11 OF 16

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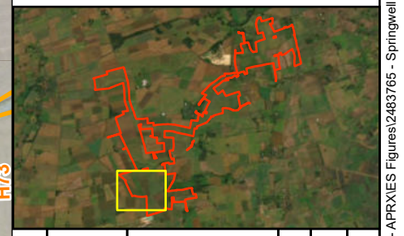
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No



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Springwell Solar Farm

DOCUMENT:
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VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 12 OF 16

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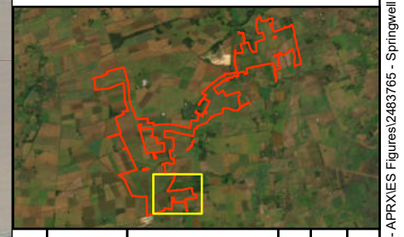
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- No
- No Hedge



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Springwell Solar Farm

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REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 13 OF 16

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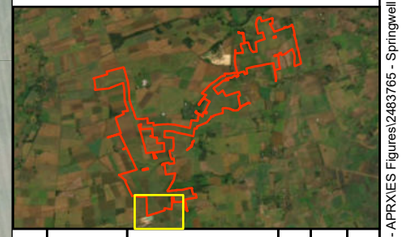
LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- No



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Springwell Solar Farm

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TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 14 OF 16

PINS REFERENCE NUMBER:
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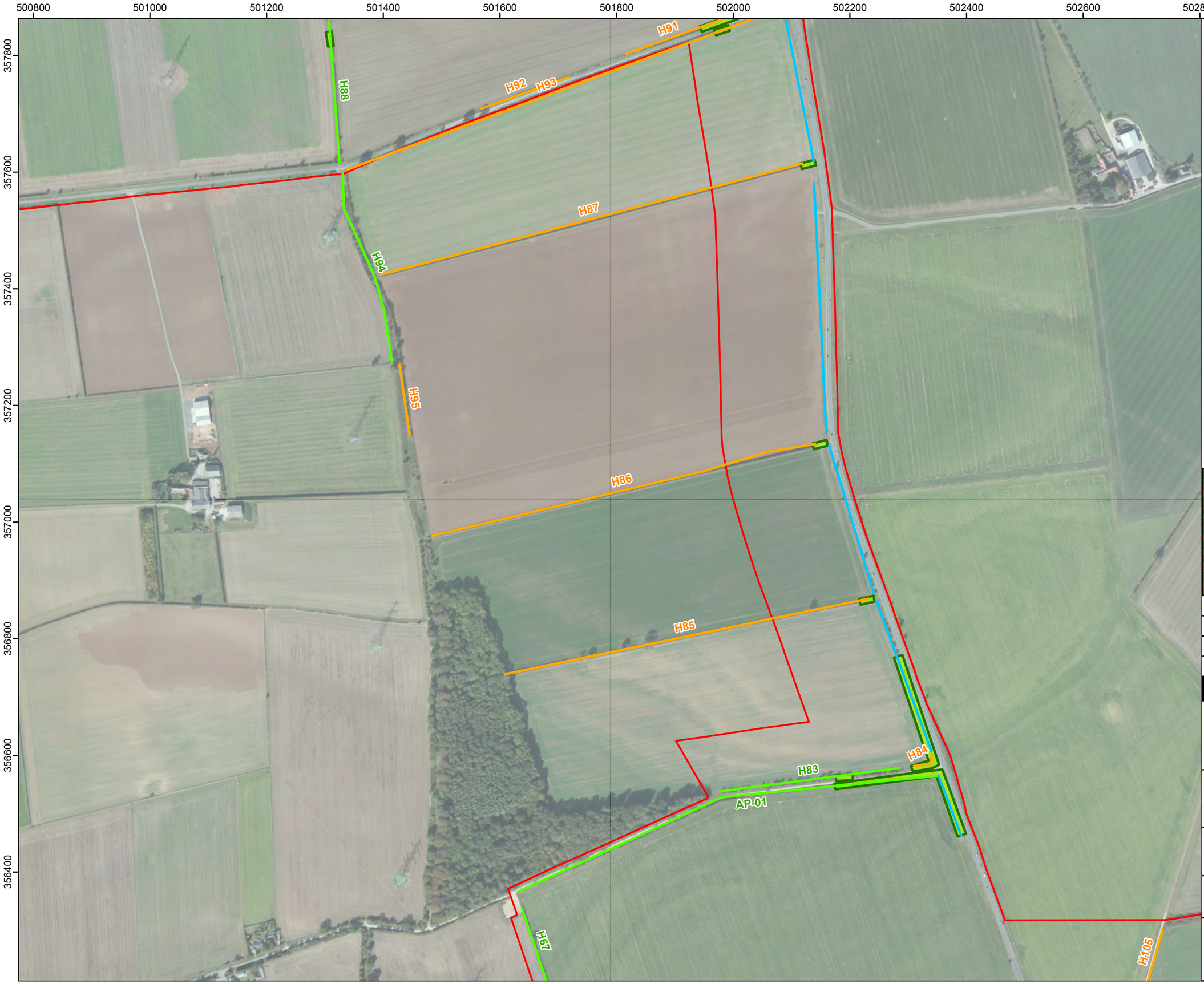
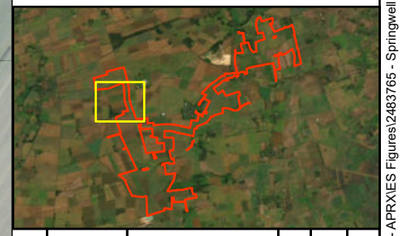


LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No
- No Hedge



Rev	Date	Description	Drn	Chk	App
01	NOV 2024	DCO SUBMISSION	RSK	RSK	EDF

Springwell Solar Farm

DOCUMENT:
ENVIRONMENTAL STATEMENT
VOLUME 3, APPENDIX 7.11: IMPORTANT HEDGEROW SURVEY
REGULATION 5(2)(a)

TITLE:
FIGURE 1 IMPORTANT HEDGEROW SURVEY AND AREAS PROPOSED FOR VEGETATION REMOVAL, PAGE 15 OF 16

PINS REFERENCE NUMBER:
EN010149/APP/6.3

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Metres
Scale: 1:6,000 @ A3

REV 01

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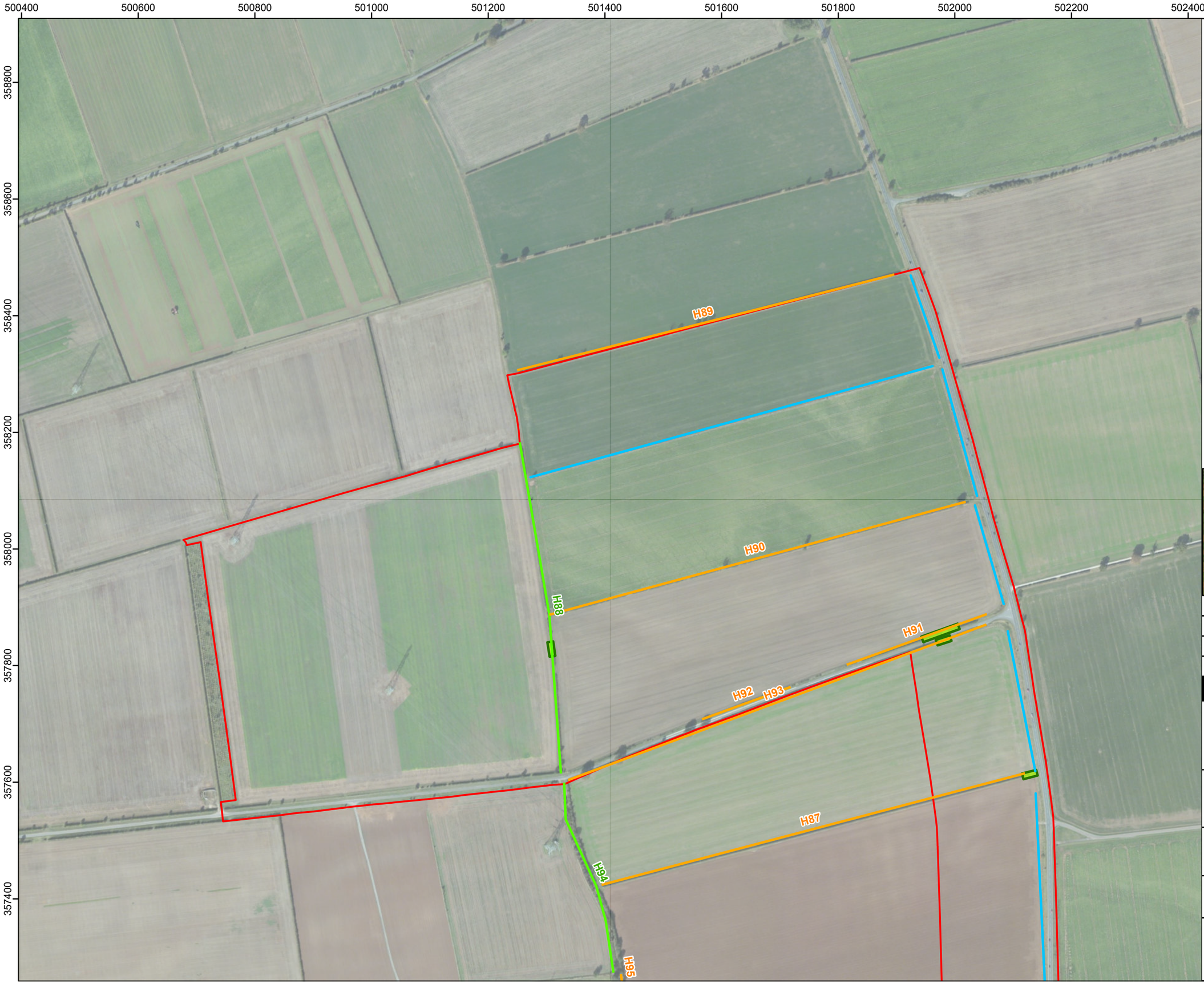
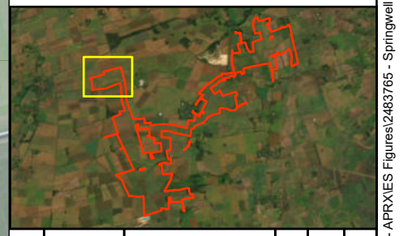


LEGEND:

- Order Limits
- Proposed Indicative Location for Vegetation Removal

Important Hedgerow

- Yes
- No
- No Hedge



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Annex 1: Hedgerow Survey Details

Table A-1 Hedgerow Survey Results (all hedgerows surveyed)

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
H1	Silver birch, hawthorn, elder	2.5.	1.5	No	No	Good
H2	Silver birch, hawthorn, elder, damson, dog rose, small leaf lime, wild privet	2.5	1.5	No	Yes	Good
H3	Hawthorn, ash, elder	2.5	1.5	No	No	Good
H4	Hawthorn, blackthorn, dog rose, field maple, ash,	2	1.5	No	Yes	Good
H5	Hawthorn, field maple, sycamore	4	1.5	No	No	Good
H6	Blackthorn, hawthorn, elder, dog rose	2.5	1.5	No	No	Good
H7	Hawthorn, field maple, blackthorn, elder	3	1.5	Yes	No	Good
H8	Hawthorn, dog rose, field maple, ash, elder, sycamore	3	1.5	No	Yes	Good
H9	Ash, hawthorn,	3	1.5	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
	small leaf lime.					
H10	Hawthorn, dog rose, ash,	3	1.5	No	No	Good
H11	Ash, hawthorn, dog rose	3	1.5	No	No	Good
H12	Hawthorn, dog rose, wild privet, elder, ash	2	1.5	No	No	Good
H13	Hawthorn, dog rose, elder, ash	1.5	1.5	No	No	Good
H14	Hawthorn, ash, dog rose,	1.5	1.5	No	No	Good
H15	Hawthorn, blackthorn, ash, dogrose	1.5	1.5	No	No	Good
H16	Hawthorn, dog rose, ash, elder	2	1.5	No	No	Good
H17	Hawthorn, elder, dog rose, ash	2	1.5	No	No	Good
H18	Hawthorn, Ash, Dog rose	2	1.5	No	No	Good
H19	Hawthorn	1	1	No	No	Good
H20	Hawthorn, Ash, Dogrose	1.5	1.5	No	No	Good
H21	Ash, hawthorn, dogrose, blackthorn	2	2	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
H22	Hawthorn, Dogrose, Elder	2	2	No	No	Good
H23	Blackthorn, Hawthorn, dogrose, elder	2.25	1.5	No	No	Good
H24	Hawthorn, elder, ash, dog rose, blackthorn	2	1.5	No	No	Good
H25	Hawthorn, dogwood	2	1.5	No	No	Good
H26	Hawthorn, dogwood	2	1.5	No	No	Good
H27	Blackthorn, hawthorn, ash	2	2	No	Yes	Good
H28	Hawthorn, ash, elder	1	1	No	No	Good
H29	Defunct hedge with remnants of hawthorn.	1	1	No	No	Good
H30	Hawthorn, sycamore, cherry, ash	2	1.5	Yes	No	Good
H31	Hawthorn	1.5	1	No	No	Good
H32	Hawthorn	2	1	No	No	Good
H33	Hawthorn	1	1	No	No	Good
H34	Hawthorn, elder	1.5	1	Yes	No	Good
H35	Wych elm, hawthorn, sycamore	0	0	No	No	Good
H36	Field maple,	0	0	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
	hawthorn, elder					
H37	Hawthorn, oak, Scot pine, beech, Quercus oak, cherry	1.5	1.5	No	No	Good
H38	Hawthorn, wild privet, wych elm, sycamore	2	1.5	No	No	Good
H39	Hawthorn, oak, dog rose, elder, ash	1	1	No	No	Good
H40	Hawthorn, elder	2	1.5	No	No	Good
H41	Hawthorn	2	1.5	No	No	Good
H42	Hawthorn, wild privet, oak, dog rose	1	1	No	No	Good
H43	Hawthorn	1.5	2	Yes	No	Good
H44	Hawthorn	2	2	No	No	Good
H45	Hawthorn, elder	2	2	No	No	Good
H46	Hawthorn, elder	2	1.5	No	No	Good
H47	Hawthorn, elder	1.5	1.5	Yes	No	Good
H48	Hawthorn	2.5	1.5	No	No	Good
H49	Blackthorn, dog rose, hawthorn, ash, elder, oak	2.5	1.5	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
H50	Blackthorn, ash, oak, hawthorn	2	1	No	No	Good
H51	Ash, blackthorn, field maple, hawthorn, dog rose	2	2	No	No	Good
H52	Hawthorn, dog rose, ash, blackthorn, elder, dogwood	2	1.5	Yes	No	Good
H53	Elder, blackthorn	1	1	No	No	Good
H54	Hawthorn, elder	2	1.5	No	No	Good
H55	Blackthorn, hawthorn, dog rose, elder	4	2	No	No	Good
H56	Ash, hawthorn, blackthorn, small leaved lime, dog rose	4	2	No	No	Good
H57	Wych elm, elder, hawthorn, ash, wild privet	1.5	1	No	No	Good
H58	Hawthorn, blackthorn, damson	3.5	1.5	No	No	Good
H59	Hawthorn, blackthorn, dog rose	3	1.5	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
H60	Hawthorn, dog rose, sessile oak	2	1.5	No	No	Good
H61	Blackthorn, hawthorn, hazel dogwood, field maple (also wild privet, wayfaring tree, elder)	0.75	1	No	No	Moderate
H62	Hawthorn, dogrose, ash	2	2	No	No	Good
H63	Hawthorn, elder	2	2	No	No	Good
H64	Elder, hawthorn	2	1	No	No	Good
H65	Ash, hawthorn, dog rose, blackthorn,	2	1	No	No	Good
H66	Defunct non-existent hedge	N/A	N/A	No	No	Poor
H67	Sycamore, elder, hawthorn, wych elm, dog rose, ash	2	2	No	Yes	Good
H68	Hawthorn, elder	2	1.5	No	No	Good
H69	Wild privet, hawthorn, elder, ash, beech, wych elm	2	2	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
H70	Hawthorn, elder, wild privet	2	1.5	No	No	Good
H71	Ash, hawthorn, dog rose, wych elm, sycamore, wild privet	3	2	No	No	Good
H72	Blackthorn, dog rose, hawthorn, elder	2	2	No	No	Good
H73	Hawthorn, oak	2	2	No	No	Good
H74	Blackthorn, hawthorn, dogrose, wild privet, ash	2	1.5	No	No	Good
H75	Hawthorn, dogwood, sycamore, dog rose, field maple	2	1.5	No	No	Good
H76	Blackthorn, dog rose, hawthorn, ash	2	2	No	No	Good
H77	Hawthorn, wych elm, elder	3	1.5	No	No	Good
H78	Wych elm, hawthorn, dog rose, blackthorn, sycamore, elder	1	1	Yes	No	Moderate
H79	Hawthorn, blackthorn,	3	1.5	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
	wych elm, dog rose					
H80	Beech, ash, hawthorn, wych elm, dog rose, elder	2	1.5	No	Yes	Good
H81	Hawthorn, beech, sweet chestnut, dog rose, wych elm, ash,	2	1.5	No	Yes	Good
H82	Alder, hawthorn	2	1.5	Yes	No	Good
AP-14	Cherry laurel, holly, wych elm, hawthorn, sycamore, ash, wild privet.	2	1.5	No	No	Good
AP-13	Blackthorn, ash, dogrose, hawthorn, wild privet	3	2	No	No	Good
AP-12	Hawthorn, blackthorn, elder, dogrose, sycamore, ash	1.5-2.5	1.5	No	No	Good
AP-11a	Dogrose, wild privet, wych elm, blackthorn, field maple,	3	1.5	No	Yes	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
	hawthorn, sycamore.					
AP-11b	Wild privet, blackthorn, hawthorn, ash, elder, sycamore, dogrose.	3	2	No	Yes	Good
AP-09a	Blackthorn, hawthorn, dogrose, dogwood, field maple, elder	2	1.5	No	Yes	Good
AP-09b	Blackthorn, elder, dogrose	2	1.5	No	No	Good
AP-09c	Ash, blackthorn, dogrose, hawthorn, crab apple.	2	1.5	No	No	Good
AP-08	Ash, hawthorn, wild privet, dogrose, field elm	2	1.5	No	No	Good
ATWa	Field elm, hawthorn	2	1.5	No	No	Good
ATWb	Hawthorn, field elm, wild privet, dogrose, elder	2	1.5	No	No	Good
ATWc	Hawthorn, field elm, field maple, ash, wild privet	2	1.5	No	No	Good
AP-06	Hawthorn, wild privet	2	1.5	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
AP-05	Hawthorn	2	1.5	No	No	Good
AP-01	Oak, elder, blackthorn, sycamore, dogrose, beech, hawthorn, wych elm, ash, field maple	2	2	No	Yes	Good
RC-W (NE area)	Oak, blackthorn, hawthorn, elder, ash	2	2	No	No	Good
H83	Beech, elder, elm, hawthorn, small leaved lime, field maple, oak, wild privet, dog rose, willow.	2	2	No	Yes	Moderate
H84	Ash, blackthorn, elder, hawthorn, hazel, field maple and dog rose.	2	2	No	No	Moderate
H85	Ash, beech, elder, elm, hawthorn, wild privet, rose.	2	2	No	No	Moderate
H86	Ash, blackthorn, elder, hawthorn,	3	2	No	No	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
	wild privet, rose.					
H87	Hawthorn, rose.	2	2	No	No	Good
H88	Ash, blackthorn, elder, elm, hawthorn, wild privet, rose, and white beam.	2.5	2	No	Yes	Moderate
H89	Ash, elder, elm, hawthorn, rose.	2.5	2	No	No	Moderate
H90	Hawthorn, dog rose, field maple, ash, elder, sycamore	2.5	2	No	No	Moderate
H91 (single boundary divided into H91 & H92 as 100m gap between)	Hawthorn, blackthorn, ash, hazel, dog rose (also elder)	2	1.5	No	No	Moderate
H92	Hawthorn, blackthorn, ash, elder, hazel, dog rose.	2	1.9	No	No	Moderate
H93	Hawthorn, blackthorn, ash, elder, hazel, dog rose	2	2	No	No	Moderate

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
H94	Ash, wild cherry, elder, elm, gorse, hawthorn, wild privet, rose.	3	2.5	No	Yes	Poor
H95	Hawthorn, elder, rose, ash, elm.	2	1.5	Yes	No	Poor
H96	Hawthorn, rose sp., blackthorn, cherry, field maple, elm, Ash, elder, dogwood, hazel	3.5	2.5	No	Yes	Good
H97	Hawthorn, Blackthorn, Rose, Ash (also goat willow, small leaved lime, elder, poplar)	2	2	No	No	Good
H98	Hawthorn, blackthorn, elder, rose sp., ash	1.5	2	No	No	Good
H99	Field maple, blackthorn, hawthorn, rose sp., dogwood, elder, cherry (also	1.5 (half length) – 3.5 (other half)	2-3	No	Yes	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
	damson and ash)					
H100	Hawthorn, blackthorn, elder, ash, rose sp. (also small leaved lime, dogwood and field maple)	2	1.5	No	No	Good
H101	Hawthorn, ash, hazel, rose sp., blackthorn	1.5	1	Yes	No	Poor
H102	Hawthorn, field maple, elder (also rose sp., elder, ash, willow, holly)	1.5	1.5	No	Yes	Moderate
H103	Hawthorn, elder, rose	1.5	1.5	No	No	Moderate
H104	Wych elm O, hawthorn (also rose sp. and ash)	1.5	1	Yes	No	Poor
H105	Hawthorn, spindle, rose sp. (also elder)	2	1.5	No	No	Good
H106	Hawthorn, ash, wild privet, white poplar,	2	2	No	Yes	Good

Hedgerow reference	Woody species recorded	Height (m)	Width (m)	Defunct?	Importance	BNG condition assessment
	blackthorn, dog rose					
H107	Hawthorn, ash, blackthorn, dog rose, elder	2	1.6	No	No	Good
H108	Hawthorn (mostly), field maple, elder, oak saplings	2.2	2.1	No	No	Good
H109	Hawthorn (mostly), field maple (standard trees) also (rare) ash, rose, elm	1.9	1.7	No	No	Moderate
H110	Hawthorn (mostly), wild privet, oak, rose, elder. Also (rare) purging buckthorn.	2	1.7	No	No	Moderate

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