

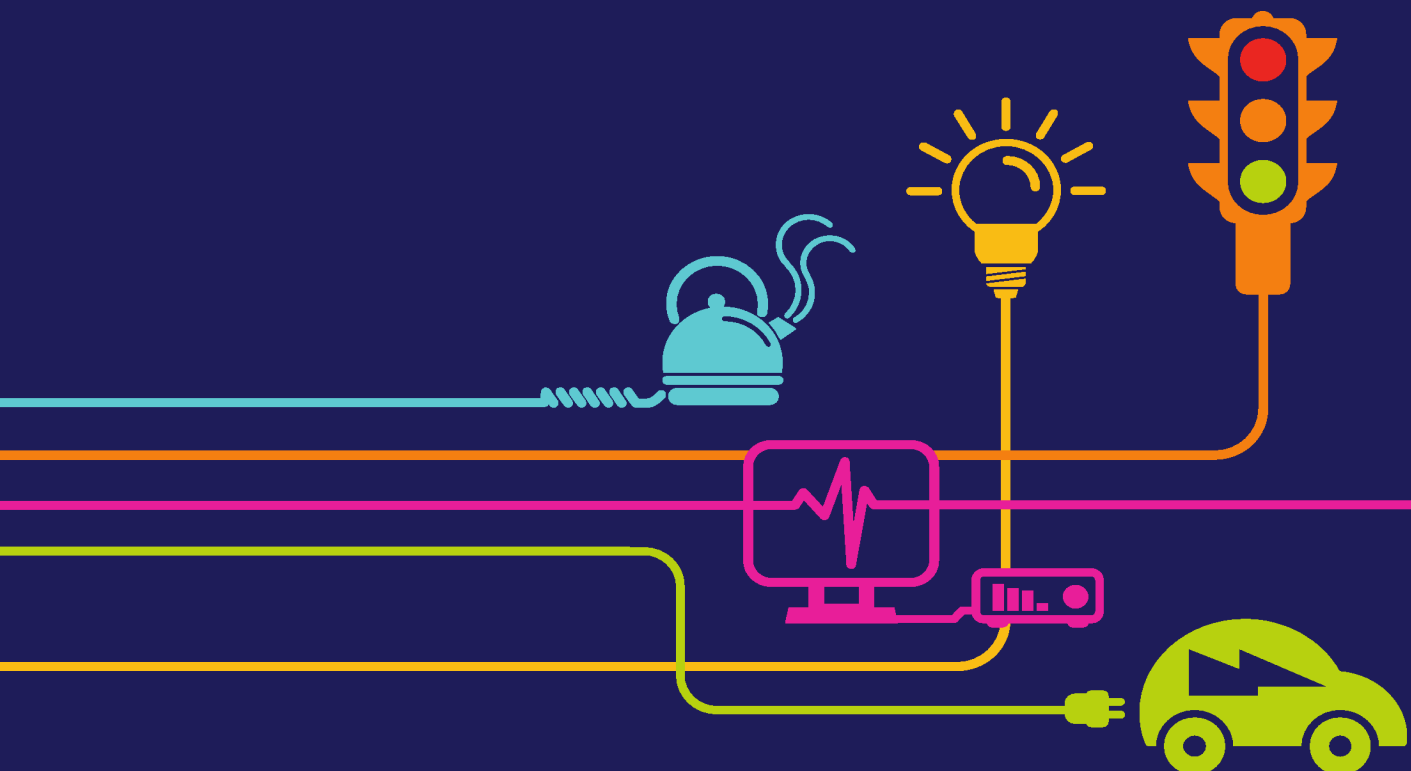
DOCUMENT 5.9.2.5

# Hedgerow Report

## Chapter 9 – Appendix 5

National Grid (North Wales Connection Project)

*Regulation 5(2)(a) including (l) and (m) of the Infrastructure Planning  
(Applications: Prescribed Forms and Procedure) Regulations 2009*





# **North Wales Connection Project**

## **Volume 5**

### **Document 5.9.2.5 Appendix 9.5 Hedgerow Report**

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Final September 2018

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Document Control			
Document Properties			
Organisation	AECOM		
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Title	Appendix 9.5 Hedgerow Report		
Document Reference	Document 5.9.2.5		
Version History			
Date	Version	Status	Description/Changes
September 2018	Rev A	Final	Final for submission



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# 1 Introduction

## 1.1 INTRODUCTION

### *Description of the Proposed Development*

1.1.1 The Proposed Development would provide a new 400 kilovolt (kV) connection between the existing substations at Wylfa and Pentir and includes the following principal components:

- extension to the existing substation at Wylfa;
- sections of new 400 kV overhead line between Wylfa Substation and Braint Tunnel Head House (THH) and Cable Sealing End Compound (CSEC) on Anglesey including modifications to parts of the existing 400 kV overhead line between Wylfa and Pentir;
- Braint THH and CSEC on Anglesey;
- tunnel between Braint and Tŷ Fodol THHs;
- Tŷ Fodol THH and CSEC in Gwynedd;
- new section of 400 kV overhead line between Tŷ Fodol THH and CSEC and Pentir Substation;
- extension to the existing substation at Pentir; and
- temporary construction compounds, access tracks, construction working areas, localised widening of the public highway and third party works that are required to construct the infrastructure listed above.

1.1.2 The Proposed Development has been split into six sections (A – F), see Figure 1.

1.1.3 A full description of the project is provided in Chapter 3, Description of the Proposed Development (**Document 5.3**) and Chapter 4, Construction, Operation, Maintenance and Decommissioning of the Proposed Development (**Document 5.4**).

### *Introduction to the Report*

- 1.1.4 This report identifies where ecologically Important hedgerows have been recorded within the Order Limits plus 50 m buffer identified through a combination of desk-based assessment and field surveys carried out during 2016, 2017 and 2018.
- 1.1.5 Historically Important boundaries have also been identified within the Order Limits through desk-based assessment which is summarised within this report.
- 1.1.6 This report also identifies relevant legislation and planning policy relating to hedgerows, which are outlined in section 2.

### *Objectives*

- 1.1.7 The objectives of the hedgerow surveys and report are to:
- provide baseline information about the presence of Important hedgerows located within and up to 50 m from the Order Limits, (referred to as the survey area in this report) that may be affected as part of the Proposed Development. The assessment was undertaken in accordance with The Hedgerow Regulation 1997 criteria to determine those classified as ‘Important’;
  - identify hedgerows which may not meet the criteria for importance, but which are considered to be of greater species diversity, in particular those which were considered to be species-rich;
  - provide the above information to inform the Ecological Impact Assessment (EclA) set out in Chapter 9, Ecology and Nature Conservation (**Document 5.9**) to determine the extent of hedgerow habitat to be lost (temporarily or permanently) by the Proposed Development;
  - inform the landscape assessment regarding appropriate hedgerow and tree species to include in planting schemes; and
  - inform the Biodiversity Mitigation Strategy (**Document 7.7**), for the Proposed Development.

### *Background to Hedgerows*

- 1.1.8 The Defra Hedgerow Survey Handbook (2007) (Ref 1) defines a hedgerow as ‘any boundary line of trees or shrubs over 20 m long and less than 5 m wide at the base, provided that at one time the trees or shrubs were more or

less continuous. It includes an earth bank or wall only where such a feature occurs in association with a line of trees or shrubs. This includes 'classic' shrubby hedgerows, lines of trees, shrubby hedgerows with trees and very gappy hedgerows (where each shrubby section may be less than 20 m long, but the gaps are less than 20 m).

- 1.1.9 Hedgerows are important for agriculture, archaeology, ecology and culture. They assist in preventing soil erosion and water run-off, controlling livestock and providing shelter, but are also an important habitat for many globally threatened and rapidly declining species.
- 1.1.10 Approximately 130 UK priority species are known to be significantly associated with hedgerows; including their trees, banks, ground flora and margins. Many of these species belong to the following groups: invertebrates, amphibians, birds, bats and small mammals (Ref 2). Therefore the loss of hedgerows, or a decline in their quality, would be likely to have an adverse effect on their associated populations.
- 1.1.11 The Defra Hedgerow Survey Handbook (2007) (Ref 1) defines a 'species-rich' hedgerow as one 'where the structural species making up the 30 m section of hedgerow include at least five woody species that are native somewhere in the UK. Climbers and bramble do not count towards the total number of woody species except for roses. Hedgerows with four or less woody species per 30 m are therefore defined as 'species-poor'.

## 2 Legislation and Planning Policy

### 2.1 LEGISLATION

- 2.1.1 Several different acts of legislation and regulations refer to the protection of wildlife. Legislation relevant to hedgerows is outlined below.

#### *The Hedgerow Regulations 1997*

- 2.1.2 The Hedgerow Regulations 1997 are intended to protect Important countryside hedgerows from destruction or damage. Hedgerows are assessed against a number of criteria in relation to their archaeology and history, wildlife and landscape, from which it is determined whether a hedgerow is 'Important'.
- 2.1.3 Under these regulations, any person wishing to remove a hedgerow must submit a hedgerow removal notice to the Local Planning Authority (LPA), unless they are stated and therefore approved within a granted planning permission/Development Consent Order.
- 2.1.4 In order to establish the importance of a hedgerow in line with the regulations, survey work is required for any hedgerow that meets the following criteria:
- has a continuous length of, or exceeding, 20 m;
  - or, has a continuous length of less than 20 m, but meets another hedgerow (by intersection or junction) at each end; and
  - has existed for 30 years or more.
- 2.1.5 In addition to the above criteria, to be deemed Important, a hedgerow must meet one or more of the following criteria:

#### Archaeology and History (Historical)

- marks all or part of a parish or township boundary that existed before 1850;
- contains, or is within, an archaeological feature listed on a Historic Environment Record (formerly Sites and Monuments Record);

- marks the boundary of an estate or manor or looks to be related to any building or other feature that is part of the estate or manor that existed before 1600;
- is a part of, or associated with, a field system pre-dating the Enclosure Acts (before 1845);

#### Wildlife and Landscape (Ecological)

- contains certain protected species listed in the Wildlife and Countryside Act 1981 (as amended); or various other defined species, including certain Red Data Book species;
- includes woody species (Appendix A) and associated features as specified in Schedule 1 and 3 of the regulations, in summary:
  - at least seven woody species, on average, in a 30 m length;
  - at least six woody species, on average, in a 30 m length, including a black poplar (*Populus nigra*), large-leaved lime (*Tilia platyphyllos*), small-leaved lime (*Tilia cordata*) or wild service tree (*Sorbus torminalis*); or
  - at least five woody species, on average, in a 30 m length and has at least four associated features;
  - is adjacent to a public right of way (not counting an adopted highway) and includes at least four woody species, plus at least two associated features (detailed below).
- The associated features are as follows:
  - a bank or wall for at least half the length of the hedgerow;
  - a ditch for at least half the length of the hedgerow;
  - gaps over no more than 10% of the length of the hedgerow;
  - on average, at least one standard tree per 50 m of hedgerow;
  - at least three woodland species as defined in Schedule 2 of the regulations within 1 m of the hedgerow (in any direction);
  - connections scoring four or more points, where connection with a hedgerow counts as one, a broad-leaved woodland or pond counts as two; and



- a parallel hedge within 15 m.

### *Environment (Wales) Act 2016*

- 2.1.6 Section 6 of the Environment (Wales) Act 2016 places a duty on public authorities to 'seek to maintain and enhance biodiversity' so far as it is consistent with the proper exercise of those functions. In so doing, public authorities must also seek to 'promote the resilience of ecosystems'. The duty replaces the section 40 duty in the Natural Environment and Rural Communities Act 2006 (NERC Act 2006), in relation to Wales, and applies to those authorities that fell within the previous duty (Ref 3).
- 2.1.7 To assist in complying with this duty, public authorities must have regard to relevant evidence provided in the State of Natural Resources Report and any relevant area statement for an area in which the authority exercises functions, as well as having regard to the list of living organisms and habitats published under Section 7 of the Act (which replaces the section 42 list for Wales provided in the NERC Act 2006) (Ref 3).
- 2.1.8 Hedgerows are listed under Section 7 of the Act (Boundary and linear features). Section 7 is a list of habitats and species of principal importance for the purpose of maintaining and enhancing biodiversity in relation to Wales. This list is currently under review by the Welsh Government in consultation with National Resources Wales (NRW).

## **2.2 PLANNING POLICY**

### *National Policy*

- 2.2.1 Government planning policy and guidance throughout the UK requires local planning authorities to take account of the conservation of notable and protected habitats and species when determining planning or development consent applications.
- 2.2.2 In Wales this is implemented through Planning Policy Wales - Edition 9, November 2016, supplemented by a series of Technical Advice Notes (TANs) (Ref 4) which sets out the land use planning policies of the Welsh Government. Consultation is currently being held on the draft Planning Policy Wales – Edition 10 which was issued in February 2018; the consultation period ended in May 2018.
- 2.2.3 Chapter 5 of PPW (9) sets out the Welsh Government's objectives for the natural heritage of Wales which includes the safeguarding of protected species. It states that *'the presence of a species protected under European or UK legislation is a material consideration when a local planning authority*

*is considering a development proposal which, if carried out, would be likely to result in disturbance or harm to the species or its habitat'. It also states that 'an ecological survey to confirm whether a protected species is present and an assessment of the likely impact of the development on a protected species may be required in order to inform the planning decision'.*

- 2.2.4 Further information on the detail of Planning Policy Wales is provided in Chapter 9, Ecology and Nature Conservation (**Document 5.9**).

#### *Local Policy*

- 2.2.5 There are a number of local planning policies set out in the Anglesey and Gwynedd Joint Local Development Plan 2017 (Ref 5) that relate to ecology and nature conservation:

- Strategic Policy PS 19 relates to conserving and enhancing the natural environment;
- Policy AMG 4 relates to coastal protection;
- Policy AMG 5 relates to the protection and enhancement of local biodiversity; and
- Policy AMG 6 relates to protecting sites of regional or local significance.

- 2.2.6 The Strategic Policy PS 19 specifically highlights the need to protect, retain or enhance hedgerows of ecological value.

#### *Biodiversity Policy*

- 2.2.7 As a result of devolution and new country-level and international drivers and requirements, much of the work previously carried out by the UK Biodiversity Action Plan (BAP) is now focused at a country-level rather than a UK-level and the UK BAP was succeeded by the 'UK Post-2010 Biodiversity Framework' in July 2012. The UK list of priority species and habitats, however, remains an important reference source and has been used to help draw up statutory lists of priorities in England, Scotland, Wales and Northern Ireland. In Wales the current lists are those under Section 7 of the Environment (Wales) Act 2016 which includes hedgerows as a priority habitat requiring conservation.

- 2.2.8 The national strategy for biodiversity is delivered at local level via Local Biodiversity Action Plans (LBAPs). Species and habitats of local conservation concern or value are included in the LBAP and an action plan is created for each species and certain habitat types.

- 2.2.9 The LBAPs relevant to the survey area for the Proposed Development are the Anglesey LBAP published by Isle of Anglesey County Council (IACC) and the Natur Gwynedd LBAP for Gwynedd developed by a partnership of organisations and individuals.
- 2.2.10 Ancient Hedgerows, those which existed before the Enclosure Acts (1720 – 1840), are included within the Anglesey LBAP with an overall objective to achieve no further losses of ancient hedgerows on the island. Cloddiau<sup>1</sup> are included within the Natur Gwynedd LBAP, although these features are not typical hedgerows they support a range of bankside and hedgerow flora and fauna. Hedgerows are also linked with many of the other LBAP Habitat Action Plans and Species Action Plans (Ref 6 and Ref 7).
- 2.2.11 The Wales Biodiversity Partnership (WBP) brings together key members from the public, private and voluntary sectors to promote and monitor biodiversity and ecosystem action in Wales. WBP provides a leadership role and an expert steer on priorities for action on biodiversity and ecosystems in Wales. The WBP Steering Group has now formally disbanded and the biodiversity action work programme taken on by the Wales Biodiversity Strategy Board (WBSB) and the WBP working groups.

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<sup>1</sup> Cloddiau are raised earth banks, usually stone faced, with possibly a hedgerow planted on top (Ref 4).

## 3 Methodology

### 3.1 DESK STUDY

#### *Hedgerow Desk Study Scoping*

- 3.1.1 To inform the survey process, a desk-top scoping exercise was undertaken using aerial photography mapping (Bing and Google), Ordnance Survey maps and design layouts to identify boundary features within the survey area which could be affected by the Proposed Development; particular attention was made where access tracks would intersect hedgerows; this process was ongoing and repeated as the development design was refined.
- 3.1.2 Hedgerow data gained from the Phase 1 Habitat survey undertaken in 2015, 2016 and 2017 was also reviewed to help focus the hedgerow surveys. The Phase 1 Habitat survey data was also used to determine the total length of species-rich and species-poor hedgerows present within the survey area (see Table 4.1).

#### *Historically Important Boundaries*

- 3.1.3 Information was obtained regarding the location of historically Important hedgerows within the Order Limits; this was provided following a desk-based study. In line with the guidance on identifying historic hedgerows, the following was obtained:
- parish boundaries - taken from the 1901 County Series OS map; and
  - Tithe Map hedges - interpreted from the Rectified Tithe Maps (dated between 1838 and 1850) (Ref 8).
- 3.1.4 The presence of hedgerows at these locations was not confirmed through field surveys as it was outside the scope of the ecology hedgerow surveys therefore some of these hedgerows may no longer exist; consequently these features have been referred to as historically Important boundaries in this report.
- 3.1.5 Cloddiau have been identified where possible through a combination of desk-based study and field surveys.

## **3.2 FIELD SURVEY**

- 3.2.1 Following on from the Phase 1 Habitat survey and desk study exercise, all vegetated boundary features which were identified as potentially being directly intersected by access tracks, affected by a visibility splay or adjacent to a working area were subject to further survey effort. The majority of the field surveys were undertaken prior to the finalisation of the design which allowed the survey findings to influence the scheme design.
- 3.2.2 Vegetated boundary features were assessed to determine whether the features had the structure and criteria to be considered a hedgerow (as opposed to a line of trees, dense scrub or a woodland edge).
- 3.2.3 Hedgerows that were considered to be more than 30 years old and at least 20 m long were then assessed using the ecological criteria defined in The Hedgerow Regulations 1997 (see Section 2.1).
- 3.2.4 Where possible, 30 m sections per 100 m of hedgerow were surveyed (up to a maximum of three sections). The extents of the hedgerows were marked on maps in the field. Several attributes for each hedgerow surveyed were recorded, these included: percentage of gaps, presence of banks/walls, presence of ditches, number of standard trees per 50 m (on average), presence of a parallel hedge (within 15 m), width, neighbouring land uses, presence of Public Rights of Way, presence of woodland ground flora and number of woody species. In addition to this, any signs of protected plant or animal species were recorded.
- 3.2.5 In accordance with the Defra Hedgerow Survey Handbook (2007) (Ref 1), hedgerows recorded for the Proposed Development which contain at least five woody species per 30 m section, but do not meet any of the other Hedgerow Regulations criteria, including number of associated features, have been classified as 'species-rich'.
- 3.2.6 Those hedgerows which include four or less woody species per 30 m section and do not meet any other of the Hedgerow Regulations criteria have been categorised as 'species-poor'.
- 3.2.7 Hedgerow surveys were conducted between July 2016 and November 2016, May and August 2017 and March and June 2018.

## **3.3 ASSESSMENT**

- 3.3.1 The data collected in the field were used to assess each hedgerow against the ecological criteria of The Hedgerow Regulations 1997 in order to determine whether they were Important.

- 3.3.2 Where hedgerows were not defined as Important under The Hedgerow Regulations 1997, but contained five woody species or more, they were recorded as species-rich in accordance with the Defra Hedgerow Survey Handbook (2007) (Ref 1). Conversely, a hedgerow can be species-poor and classified as Important, should it meet certain historical or archaeological criteria.

### **3.4 ASSUMPTIONS AND LIMITATIONS**

- 3.4.1 The Hedgerow Survey Handbook states that the field survey period for hedgerow surveys extends approximately from April to October depending on the geographical location (Ref 1). Surveys outside this period could limit the assessment of ground flora which is one of the associated features under the ecological criteria. Where surveys were undertaken outside the peak survey period, surveys were repeated the following season where possible and considered necessary (i.e. where the presence of ground flora as an associated feature could have made the hedgerow Important).
- 3.4.2 Access restrictions prevented survey of approximately 20 hedgerows that could be affected by the Proposed Development. This may have led to ecologically Important hedgerows being un-recorded. Conversely, hedgerows identified as historically Important which were not visited as part of the ecology field surveys may no longer exist. As a result, historically Important hedgerows may be over-recorded. However, the total number of boundaries which have been surveyed is high, thus this is not considered to be a significant limitation and a robust representation of the type of hedgerows present in the survey area has been obtained.
- 3.4.3 The Tithe Maps reviewed for the historically Important hedgerows are quite variable, with some having every hedge and road boundary marked, while others appear more sparsely recorded.

## 4 Results

### 4.1 DESK STUDY RESULTS

#### *Hedgerow Desk Study Scoping*

- 4.1.1 Table 4.1 provides a summary of the hedgerow results obtained during the Phase 1 Habitat survey.
- 4.1.2 The total length of species-rich and species-poor hedgerow recorded during the Phase 1 Habitat survey was 30.03 km and 83.74 km respectively within the survey area (Order Limits plus 50 m). The total length of species-rich and species-poor hedgerows recorded in the Order Limits has also been presented in Table 4.1 (17.98 km and 48.43 km respectively).

**Table 4.1 Length of species-rich and species-poor hedgerow present within the Order Limits and within the survey area (Order Limits plus 50 m), identified during the Phase 1 Habitat survey**

Habitat type	Phase 1 code	Length (km) (Order Limits)	Length (km) (survey area)
Intact native species-rich hedge	J2.1.1	7.58 km	13.39 km
Defunct native species-rich hedge	J2.2.1	0.38 km	0.67 km
Native species-rich hedge with trees	J2.3.1	10.02 km	15.97 km
<b>Total length of species-rich hedgerow</b>		<b>17.98 km</b>	<b>30.03 km</b>
Intact species-poor hedge	J2.1.2	29.12 km	49.25 km
Defunct species-poor hedge	J2.2.2	5.71 km	11.01 km
Species-poor hedge with trees	J2.3.2	13.60 km	23.48 km
<b>Total length of species-poor hedgerow</b>		<b>48.43 km</b>	<b>83.74 km</b>

### *Historically Important Boundaries*

- 4.1.3 The historically Important boundaries identified through the desk study are detailed in Appendix B and are shown on Figure 1.
- 4.1.4 In summary, 93 historically Important boundaries were identified within the Order Limits. This equates to approximately 17.5 km of historically Important boundary in the Order Limits. These were a combination of boundaries marking parish boundaries (approximately 4.3 km), those recorded from Tithe Maps (approximately 12.5 km) and one unknown origin (approximately 0.8 km).
- 4.1.5 Twenty-six of the 93 historically Important boundaries were also recorded as ecologically Important; these boundaries can be confirmed as historically Important hedgerows as hedgerow presence was confirmed during the field surveys.
- 4.1.6 Forty-two cloddiau and five potential cloddiau were identified within the Order Limits; these are shown on Figure 1.

## **4.2 FIELD RESULTS**

- 4.2.1 Figure 1 shows the location of all the hedgerows that were included in the field surveys and their category, either ecologically Important or ecologically unimportant (i.e. those that do not meet the criteria of The Hedgerow Regulations 1997).
- 4.2.2 A total of 434 hedgerows within the survey area were assessed and surveyed during the 2016, 2017 and 2018 survey periods.
- 4.2.3 Seventy-one boundaries were scoped out from further survey as they were not hedgerows, for example they were lines of trees, scrub, fences or walls.
- 4.2.4 Those hedgerows confirmed as ecologically unimportant have been classified as either species-rich or species-poor.

### *Ecologically Important and Species-Rich Hedgerows*

- 4.2.5 Of the hedgerows assessed within the survey area, a total of 96 were considered to be ecologically Important. This equates to approximately 15.2 km of ecologically Important hedgerow surveyed in the survey area. The ecologically Important hedgerow results are summarised in Appendix C.
- 4.2.6 Of the hedgerows assessed within the survey area, a total of 23 were considered to be species-rich. This equates to approximately 3.7 km of



species-rich hedgerow surveyed in the survey area. The species-rich hedgerow results are summarised in Appendix C.

- 4.2.7 The remaining 315 hedgerows surveyed were classified as species-poor. This equates to approximately 47.9 km of species-poor hedgerow surveyed in the survey area.
- 4.2.8 A breakdown of the number of ecologically Important and species-rich hedgerows recorded in the six sections of the survey area (A – F) is detailed in Table 4.2. The approximate total surveyed length of each is also presented.
- 4.2.9 The majority of ecologically Important hedgerows were recorded in Section D and E (24 hedgerows in both sections) and the majority of species-rich hedgerows were recorded in Section C (8 hedgerows). When looking at the overall length of hedgerows, Section E had the longest total length of ecologically Important hedgerow surveyed (4.41 km) and Section C had the longest total length of species-rich hedgerows surveyed (1.12 km).

**Table 4.2: Total number and length of Important and species-rich hedgerows surveyed within the survey area (Order Limits plus 50 m)**

Order Limits Section	No. of Species-Rich Hedgerows Surveyed	Length of Species-Rich Hedgerow Surveyed (km)	No. of Ecologically Important Hedgerows Surveyed	Length of Ecologically Important Hedgerow Surveyed (km)
A	1	0.21	5	0.83
B	1	0.40	14	2.33
C	8	1.12	23	3.30
D	6	0.86	24	3.26
E	4	0.72	24	4.41
F	3	0.40	6	1.11
Total	23	3.7	96	15.2

- 4.2.10 The most frequently occurring woody species in the hedgerows surveyed was common hawthorn (*Crataegus monogyna*), which was recorded in 385 of the 434 hedgerows surveyed. Other frequently recorded woody species included blackthorn (*Prunus spinosa*), rose species (*Rosa spp.*) and common gorse (*Ulex europaeus*). The ten most commonly occurring species recorded during the surveys are shown in Table 4.3.

**Table 4.3: Summary of the ten most abundant woody species**

Species	Latin Name	No. of Hedgerow	% of hedgerows surveyed containing these species
Common hawthorn	<i>Crataegus monogyna</i>	385	89%
Blackthorn	<i>Prunus spinosa</i>	244	56%
Common gorse	<i>Ulex europaeus</i>	201	46%
Rose species	<i>Rosa spp.</i>	178	41%
Ash	<i>Fraxinus excelsior</i>	130	30%
Elder	<i>Sambucus nigra</i>	112	26%
Willow species	<i>Salix spp.</i>	97	22%
Hazel	<i>Corylus avellana</i>	50	12%
Oak species	<i>Quercus spp.</i>	39	9%
Holly	<i>Ilex aquifolium</i>	36	8%

- 4.2.11 Ancient woodland ground flora species commonly recorded included male fern (*Dryopteris filix-mas*), herb-Robert (*Geranium robertianum*), wood sage (*Teucrium scorodonia*), wood avens (*Geum urbanum*), common polypody (*Polypodium vulgare*), hart's tongue (*Phyllitis scolopendrium*) and broad buckler fern (*Dryopteris dilatata*).

## 5 Conclusion

- 5.1.1 A total of 434 hedgerows within the survey area were assessed and surveyed during the 2016, 2017 and 2018 survey periods. Overall, a total of 96 hedgerows surveyed within the survey area were found to meet the criteria for an ecologically Important hedgerow. This equates to approximately 15.2 km of ecologically Important hedgerow surveyed within the survey area.
- 5.1.2 Of those hedgerows surveyed that did not meet the criteria for an ecologically Important hedgerow, 23 were classified as species-rich as they contained five or more woody species, and 315 were classified as species-poor. This equates to approximately 3.7 km of species-rich hedgerow and 47.9 km of species-poor hedgerow surveyed within the survey area.
- 5.1.3 The desk study identified 93 historically Important boundaries within the Order Limits, equating to approximately 17.5 km. Of these 26 were also recorded as Important under the ecological criteria and were confirmed to be historically Important hedgerows.
- 5.1.4 Forty-two cloddiau and five potential cloddiau were identified within the Order Limits through a combination of desk-based study and field surveys.
- 5.1.5 Hedgerow removal would be required to facilitate the construction of access tracks for the Proposed Development. The design of the Proposed Development including the access tracks seeks to utilise existing farm gates and gaps in hedgerows, or sections of lower quality/species diversity where practical. In addition, the standard width of access track would be narrowed where practical when passing through hedgerows in order to reduce the section affected. All hedgerows affected by temporary construction works would be reinstated on completion of the works.
- 5.1.6 Effects as a result of the Proposed Development and mitigation measures are detailed in Chapter 9 Ecology and Nature Conservation (**Document 5.9**). Further details on the mitigation measures are provided in the Biodiversity Mitigation Strategy (**Document 7.7**). Potential enhancement opportunities are detailed within the Enhancement Strategy (**Document 7.13**) which includes opportunities for enhancement of hedgerows.

## References

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<http://www.hedgelink.org.uk/>

Ref 3: Welsh Government. The Environment (Wales) Act 2016 Part 1 Interim Guidance <https://www.biodiversitywales.org.uk/Environment-Wales-Act>

Ref 4: Welsh Government (2016); Planning Policy Wales Edition 9 – November 2016. <http://gov.wales/docs/desh/publications/161117planning-policy-wales-edition-9-en.pdf>

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<http://www.anglesey.gov.uk/planning-and-waste/countryside/biodiversity-and-conservation/what-are-we-doing-to-help-biodiversity-on-anglesey/>

Ref 8: Tithe Maps (dated between 1838 and 1850);  
<http://cynefin.archiveswales.org.uk/en/tithe-maps>

### Websites

<http://www.magic.gov.uk/> MAGIC website

<https://www.gwynedd.llyw.cymru> Gwynedd Council website

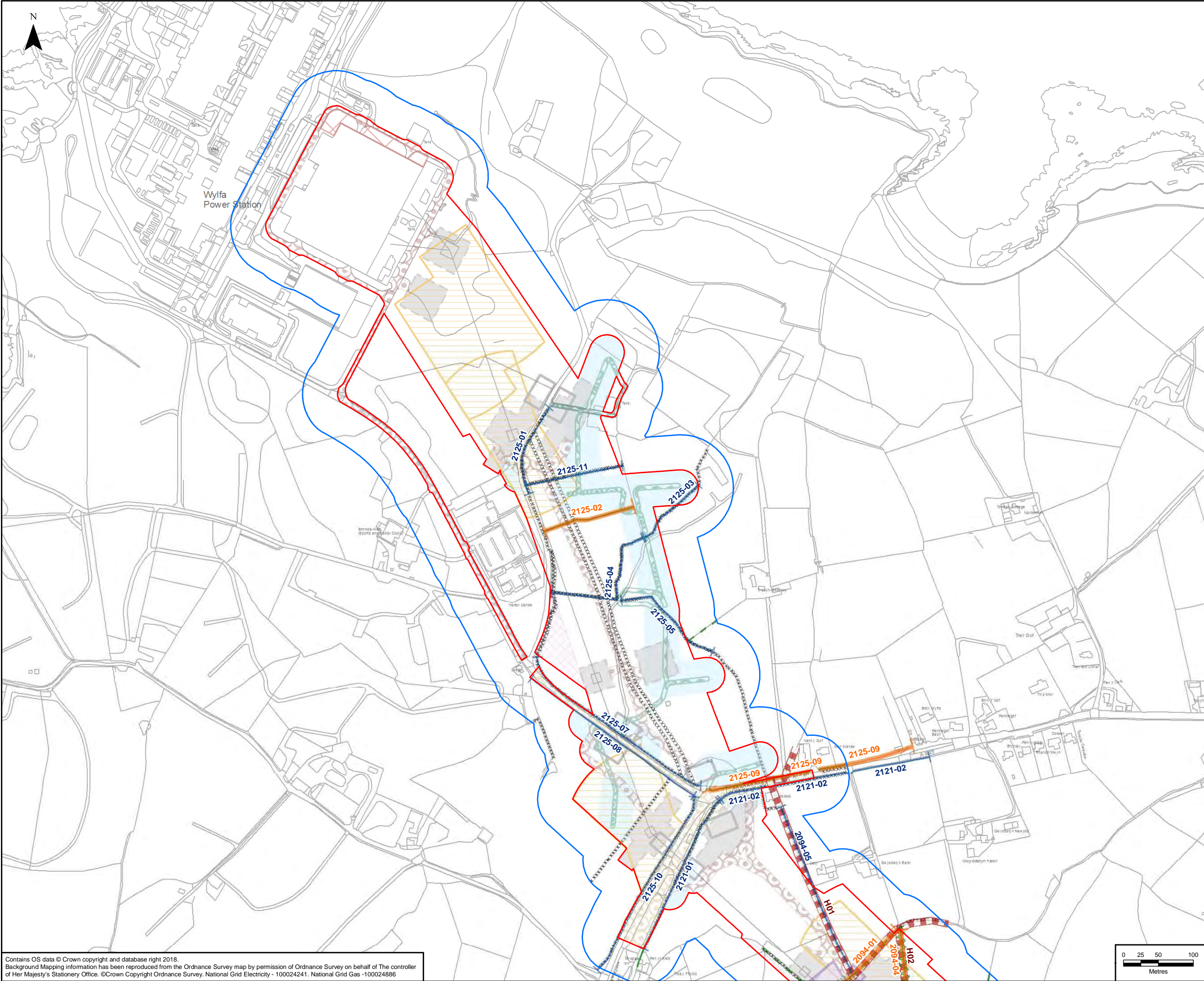
<http://gov.wales/?lang=en> Welsh Government website

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# Figures

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**LEGEND**

ORDER LIMITS

50M BUFFER OF ORDER LIMITS

SECTION CUTLINES

CONDUCTOR PULLING POSITION

PYLON WORKING AREA

SCAFFOLD WORKING AREA

AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED

BRIDGE WORKING AREA

ACCESS - NATIONAL GRID

ACCESS - THIRD PARTY

ACCESS - NATIONAL GRID AND THIRD

HIGHWAY WORKS

DRAINAGE MITIGATION AREA

CONSTRUCTION COMPOUND

AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

HISTORICALLY IMPORTANT BOUNDARY

CONFIRMED CLODDIAU

POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH

J2.1.2 - INTACT HEDGE - SPECIES-POOR

J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH

J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR

J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH

J2.3.2 - HEDGE WITH TREES - SPECIES-POOR

OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

ECOLOGICALLY IMPORTANT HEDGEROW

ECOLOGICALLY UNIMPORTANT HEDGEROW

BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.

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Rev	Date	Description	GIS	Chk	App

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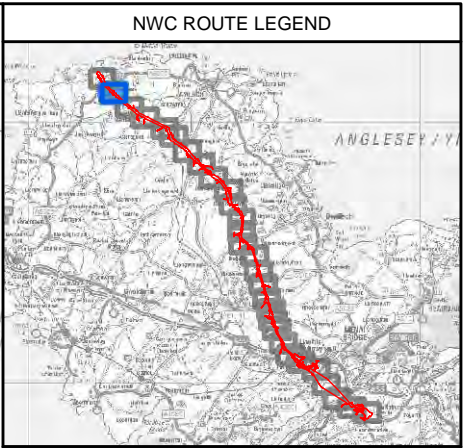
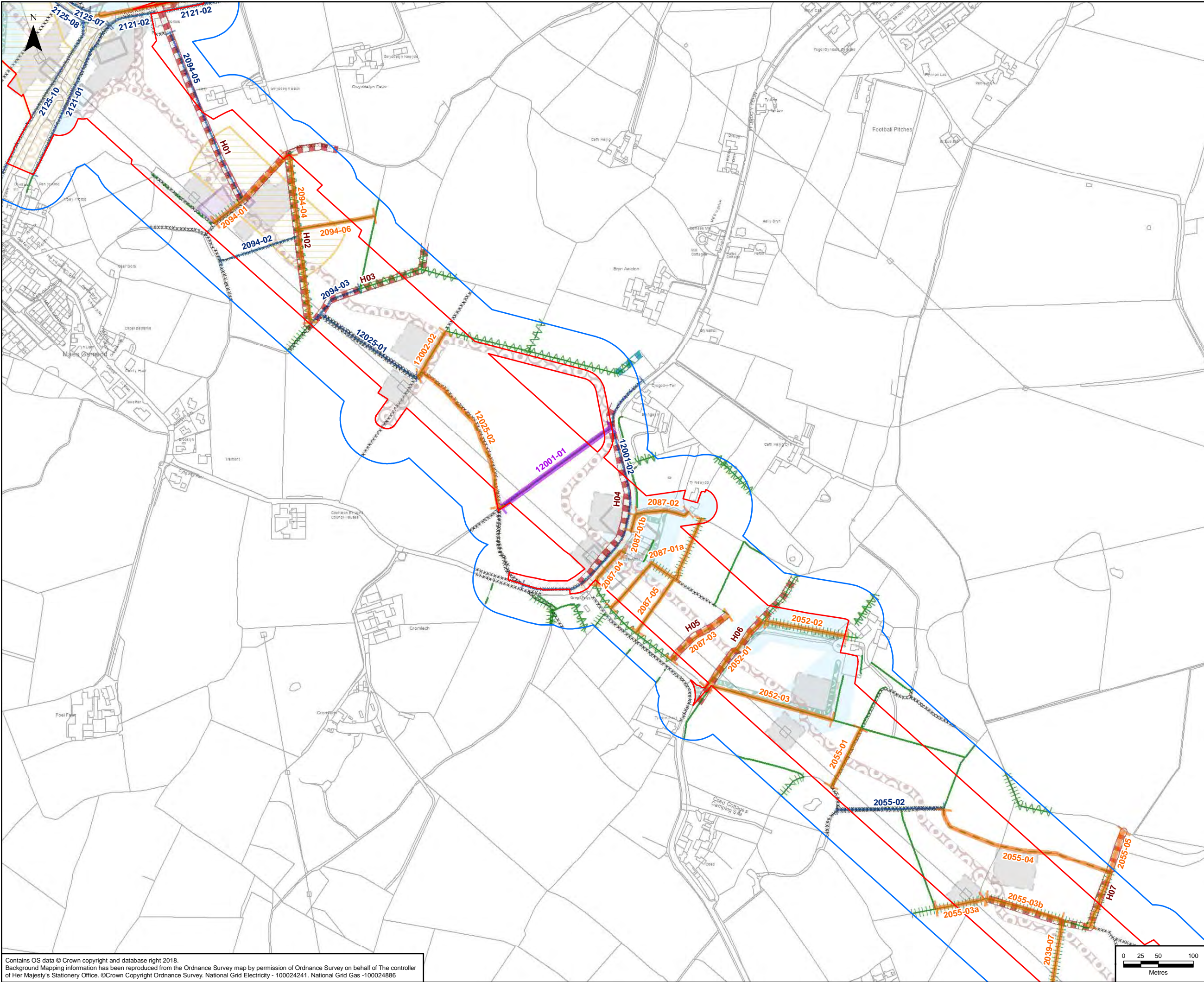
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HEDGEROW SURVEY RESULTS  
SECTION A

Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
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- ACCESS - NATIONAL GRID AND THIRD
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- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

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- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

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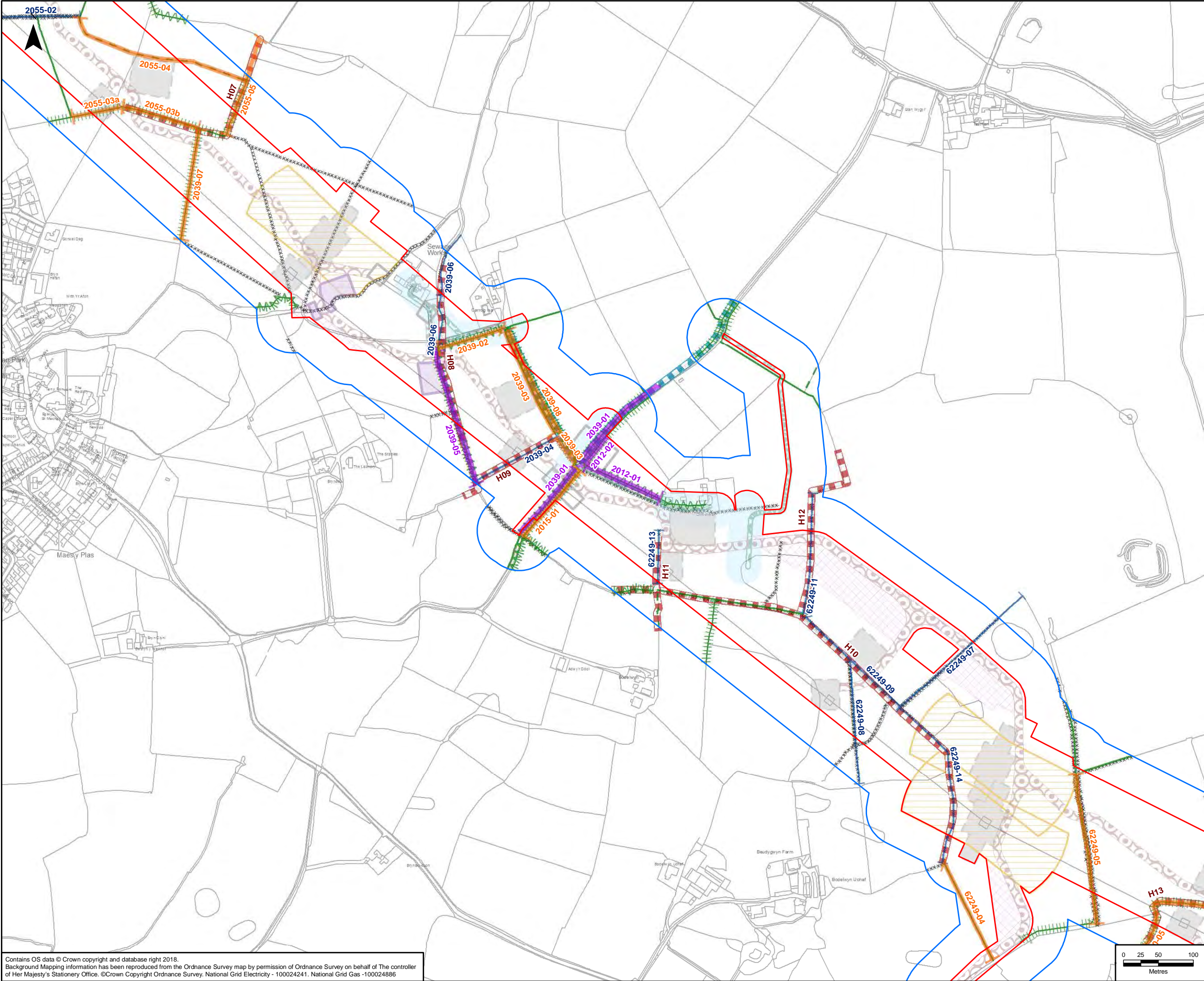
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HEDGEROW SURVEY RESULTS  
SECTION A

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- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

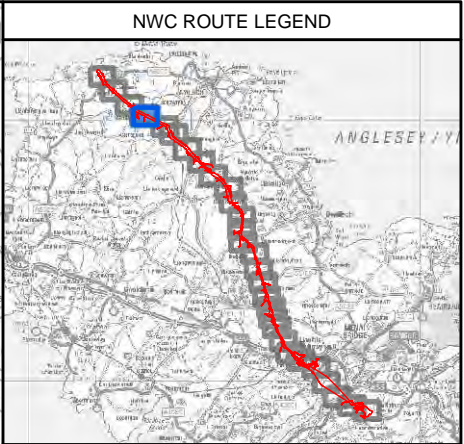
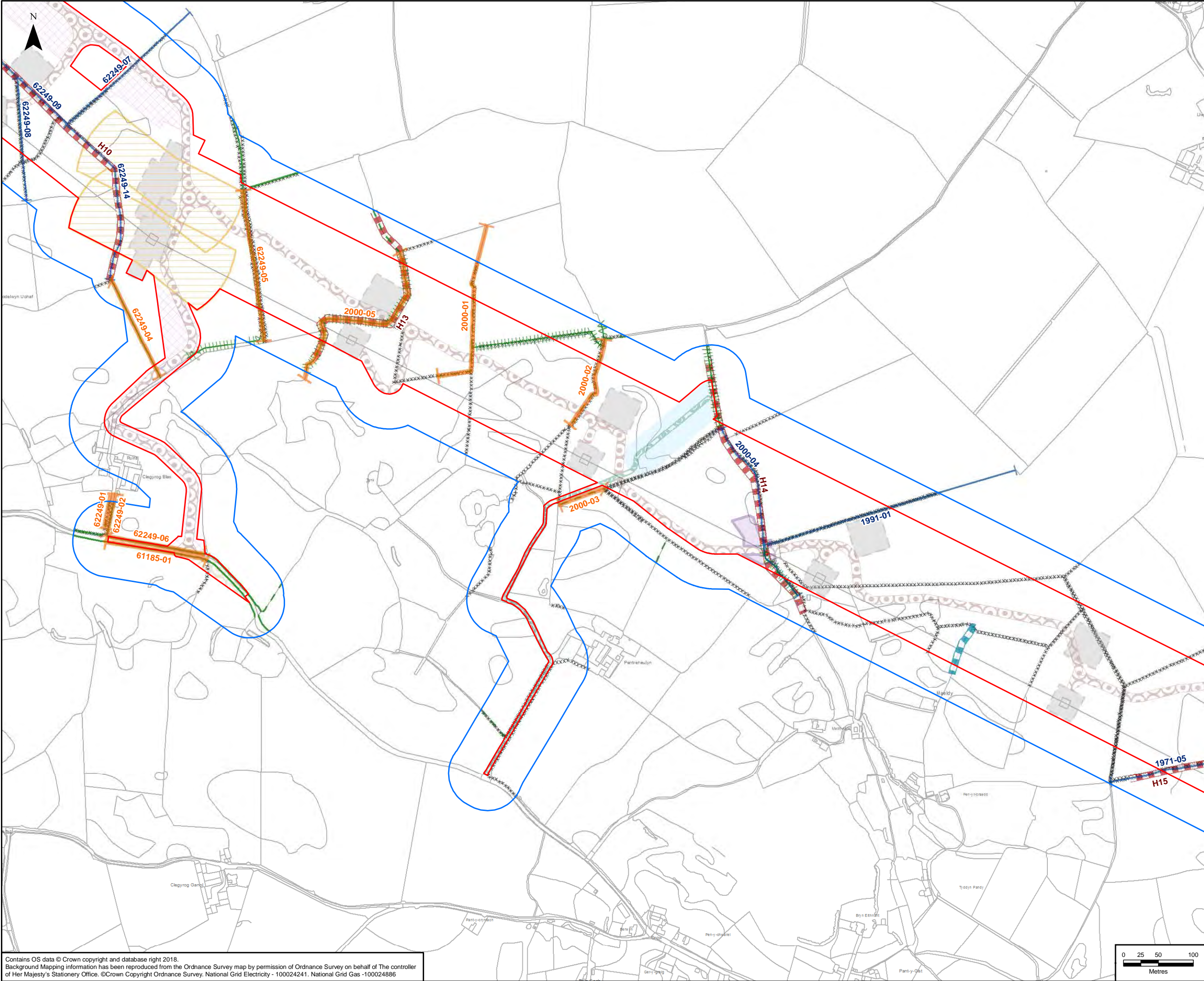
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Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
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**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

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- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

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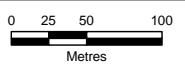
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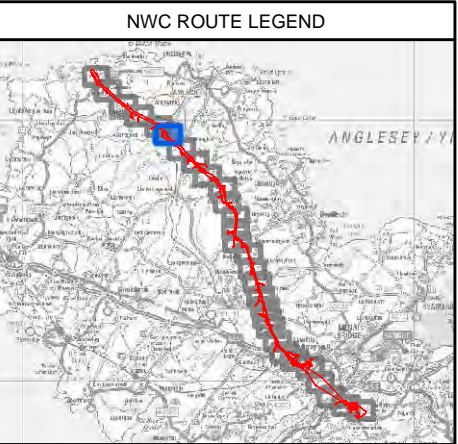
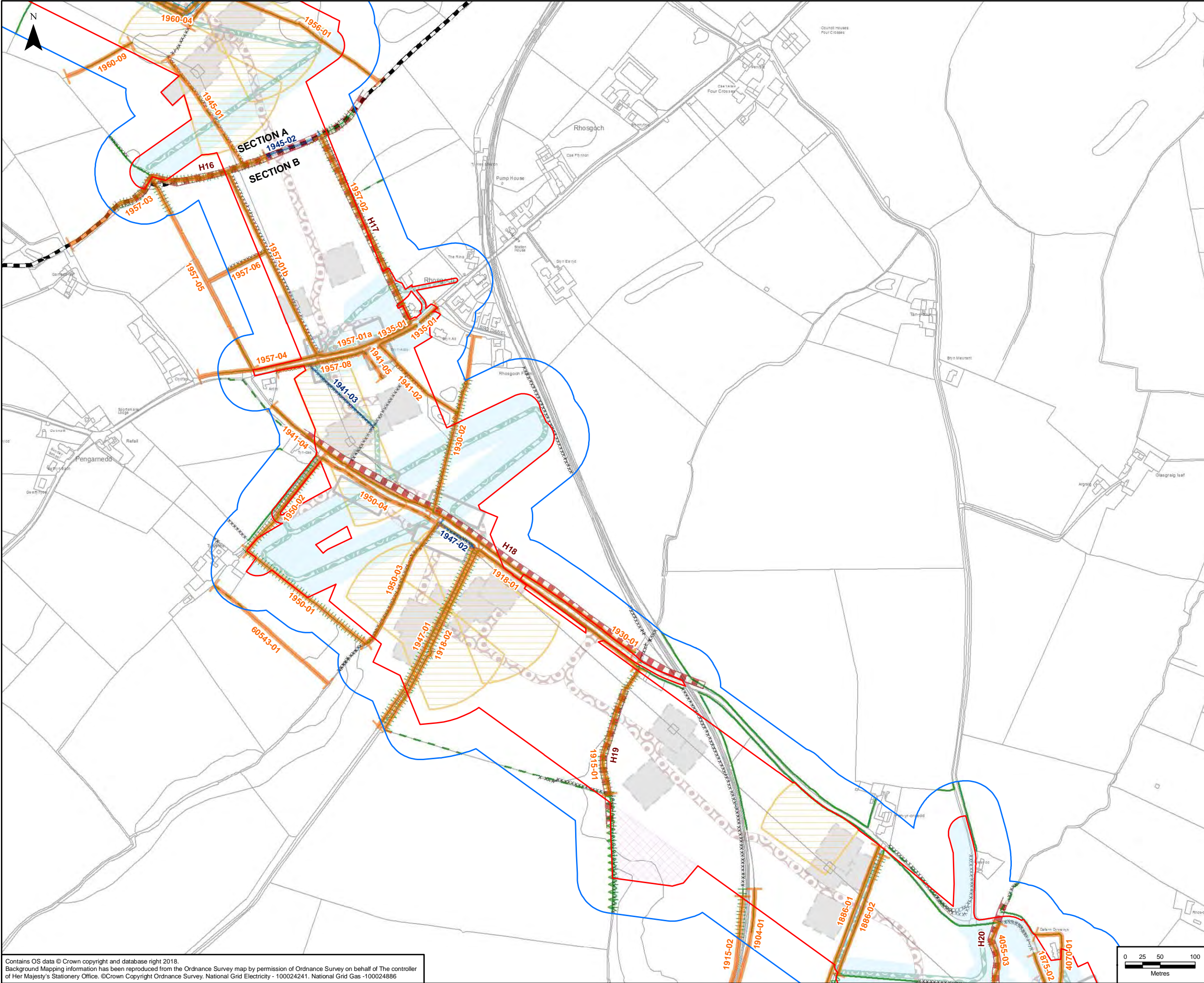
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**LEGEND**

ORDER LIMITS

50M BUFFER OF ORDER LIMITS

SECTION CUTLINES

CONDUCTOR PULLING POSITION

PYLON WORKING AREA

SCAFFOLD WORKING AREA

AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED

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ACCESS - THIRD PARTY

ACCESS - NATIONAL GRID AND THIRD

HIGHWAY WORKS

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CONSTRUCTION COMPOUND

AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

HISTORICALLY IMPORTANT BOUNDARY

CONFIRMED CLODDIAU

POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH

J2.1.2 - INTACT HEDGE - SPECIES-POOR

J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH

J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR

J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH

J2.3.2 - HEDGE WITH TREES - SPECIES-POOR

OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

ECOLOGICALLY IMPORTANT HEDGEROW

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Scheme:

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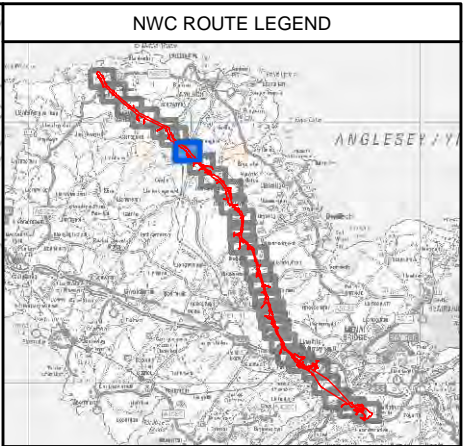
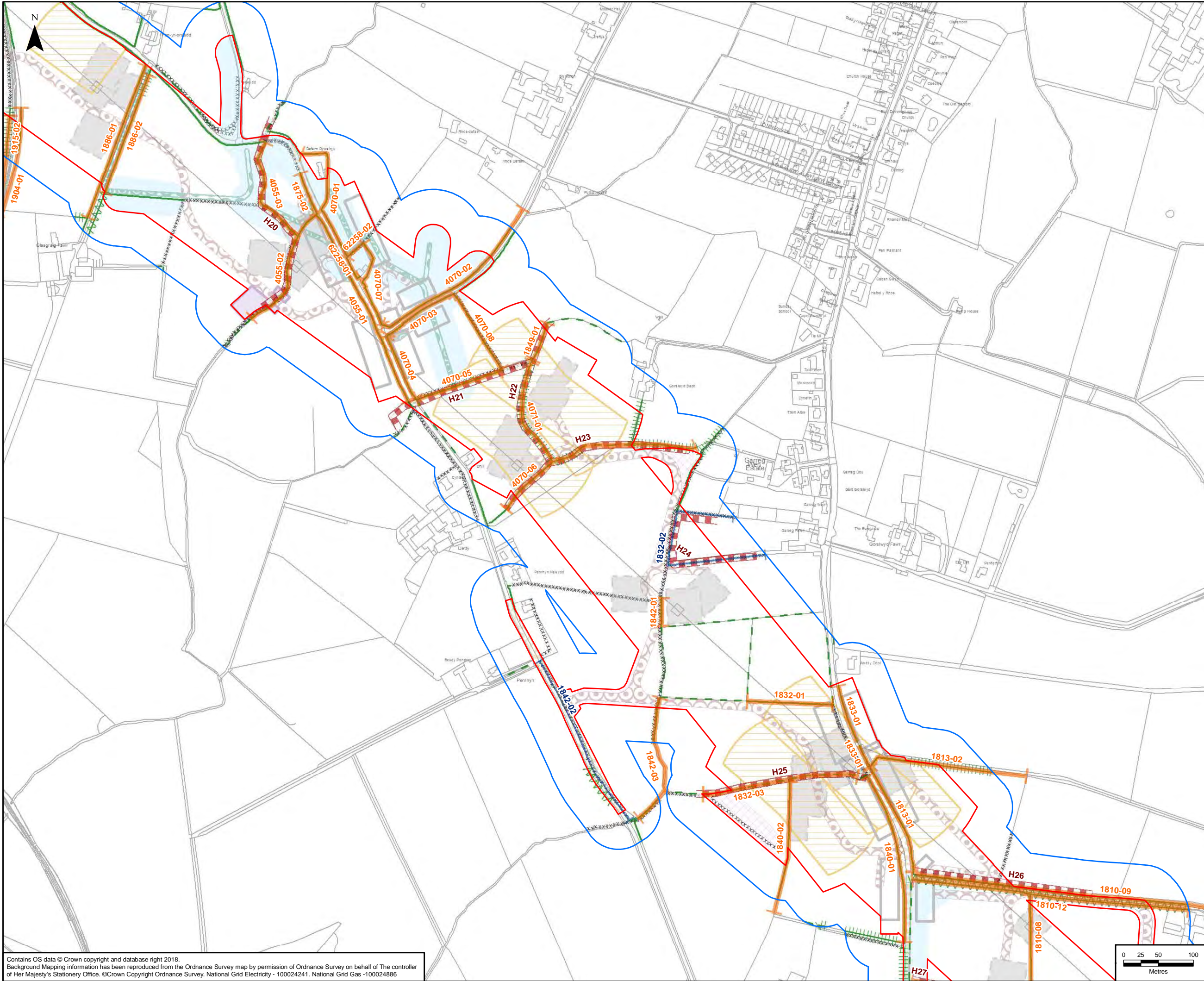
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HEDGEROW SURVEY RESULTS  
SECTION B

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**LEGEND**

ORDER LIMITS

50M BUFFER OF ORDER LIMITS

SECTION CUTLINES

CONDUCTOR PULLING POSITION

PYLON WORKING AREA

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AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED

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ACCESS - NATIONAL GRID AND THIRD

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**BOUNDARY FEATURES**

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CONFIRMED CLODDIAU

POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

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J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR

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J2.3.2 - HEDGE WITH TREES - SPECIES-POOR

OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

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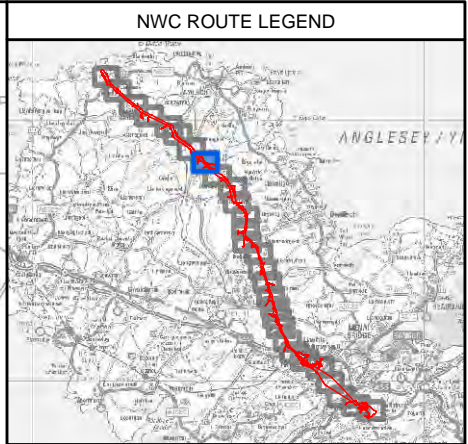
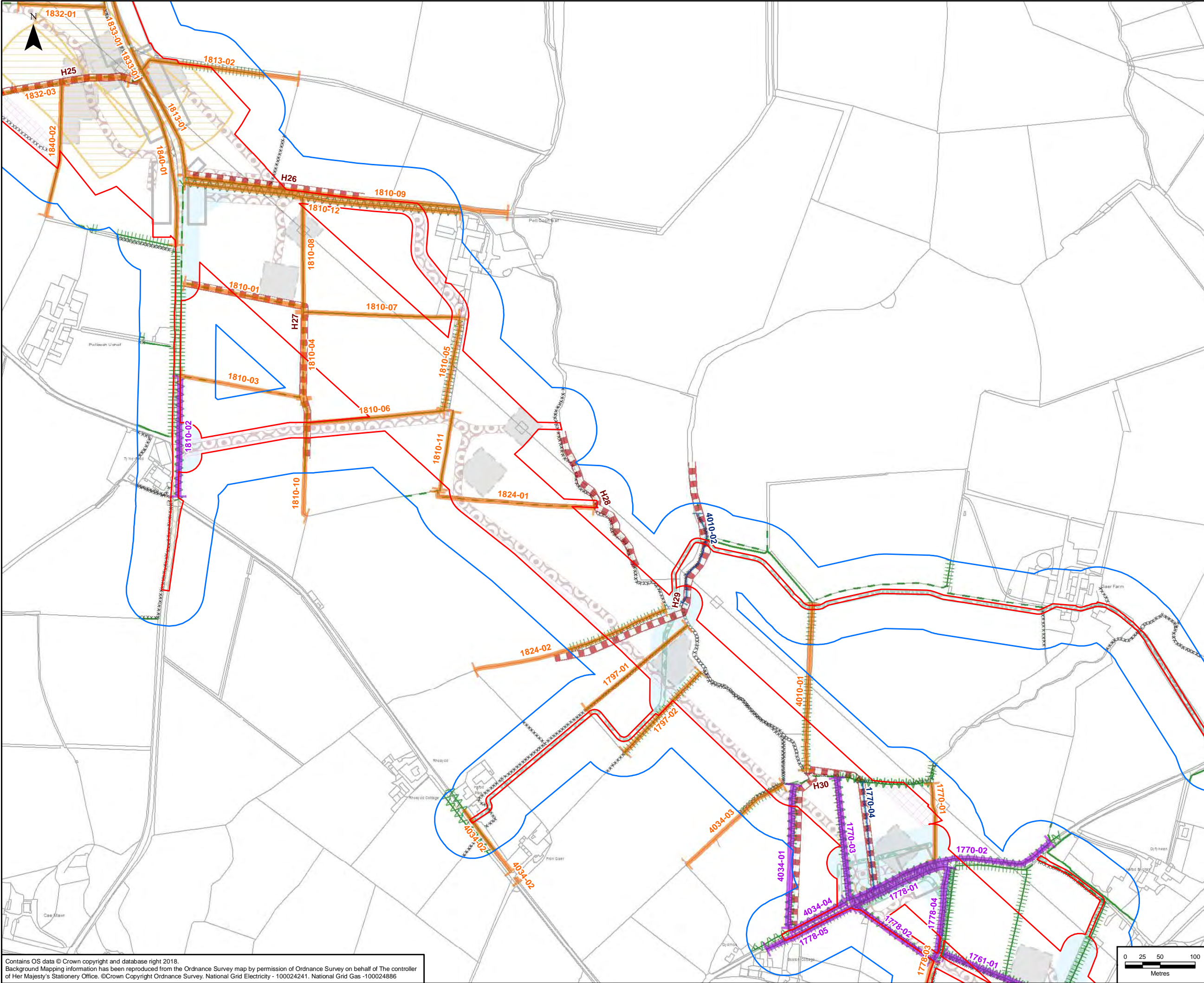
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HEDGEROW SURVEY RESULTS  
SECTION B

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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
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**HEDGEROW SURVEY RESULTS**

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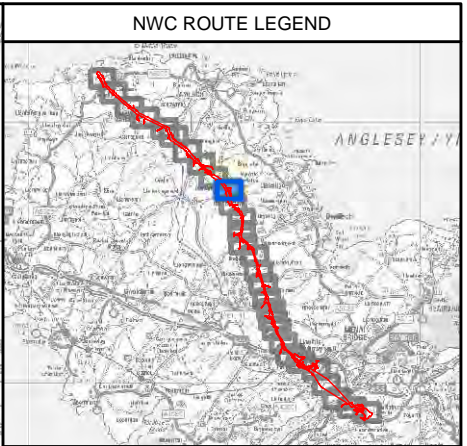
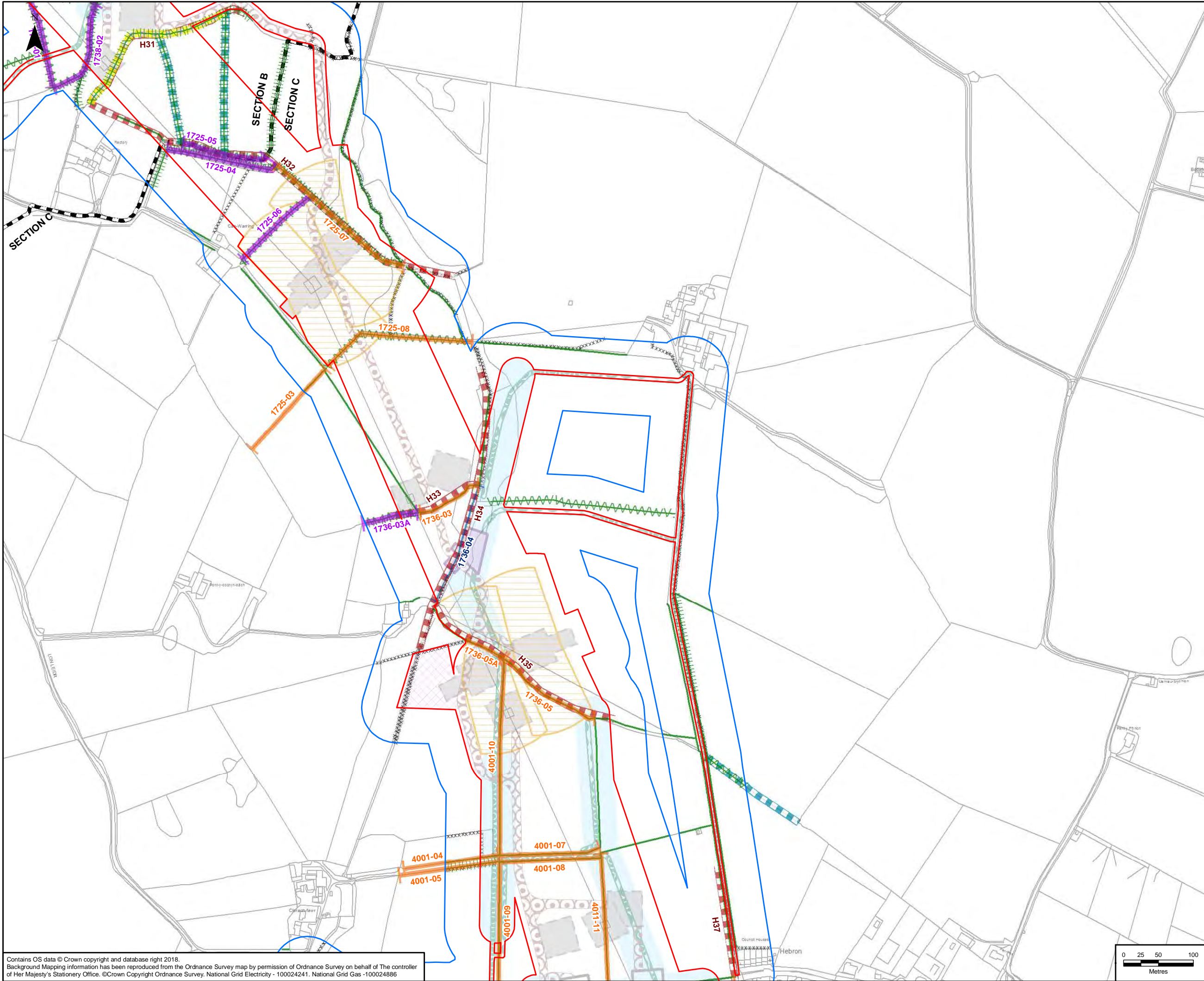
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**HEDGEROW SURVEY RESULTS**

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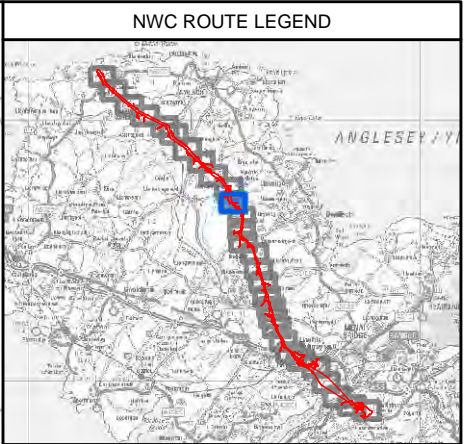
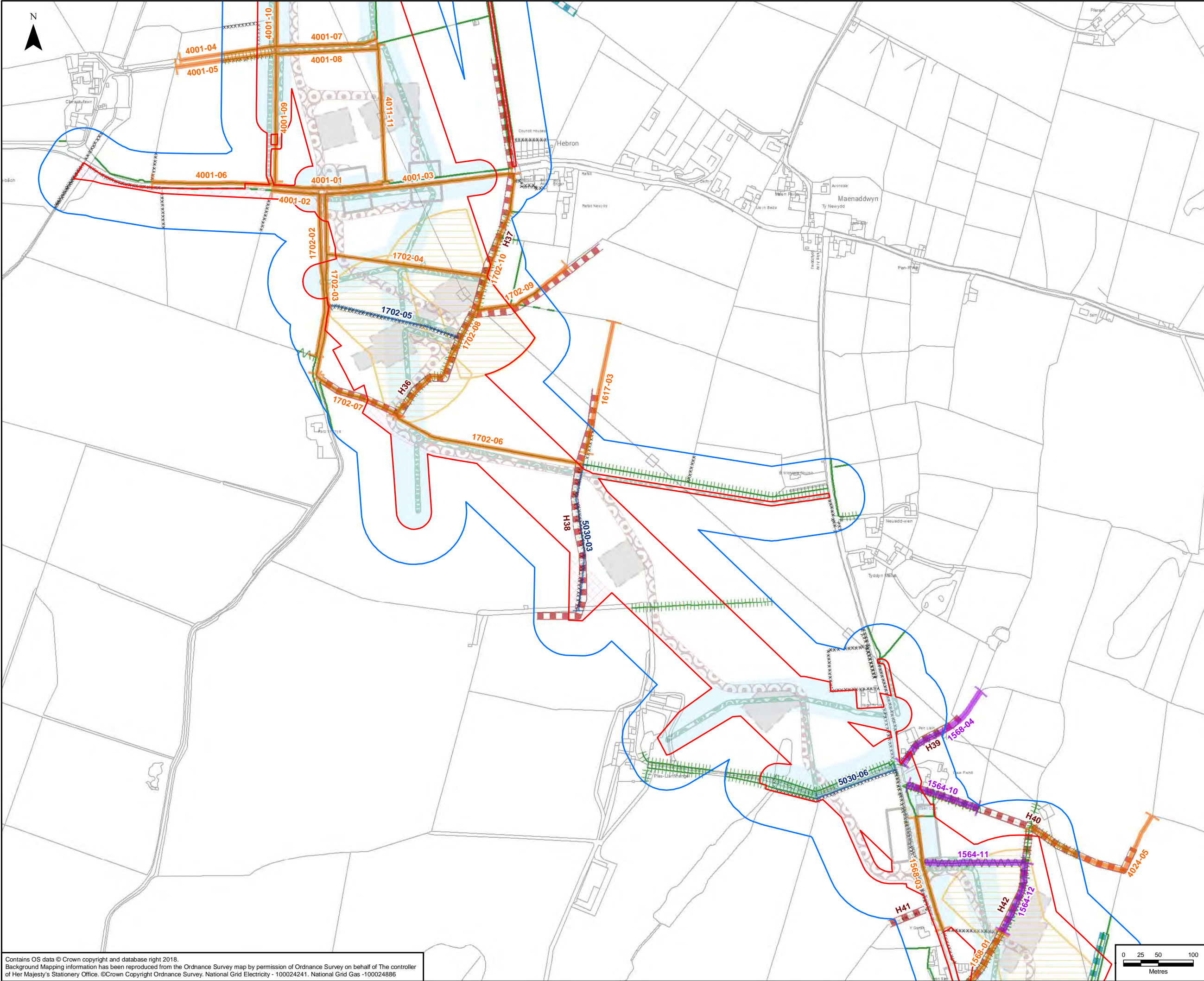
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HEDGEROW SURVEY RESULTS  
SECTION C

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- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

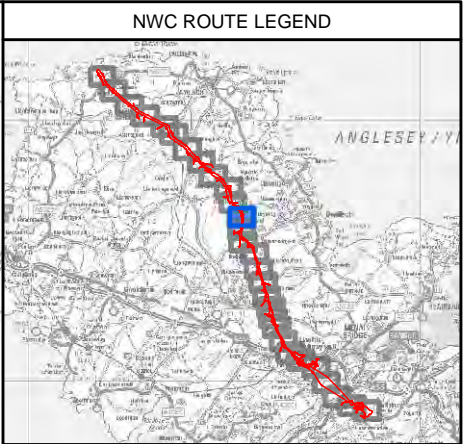
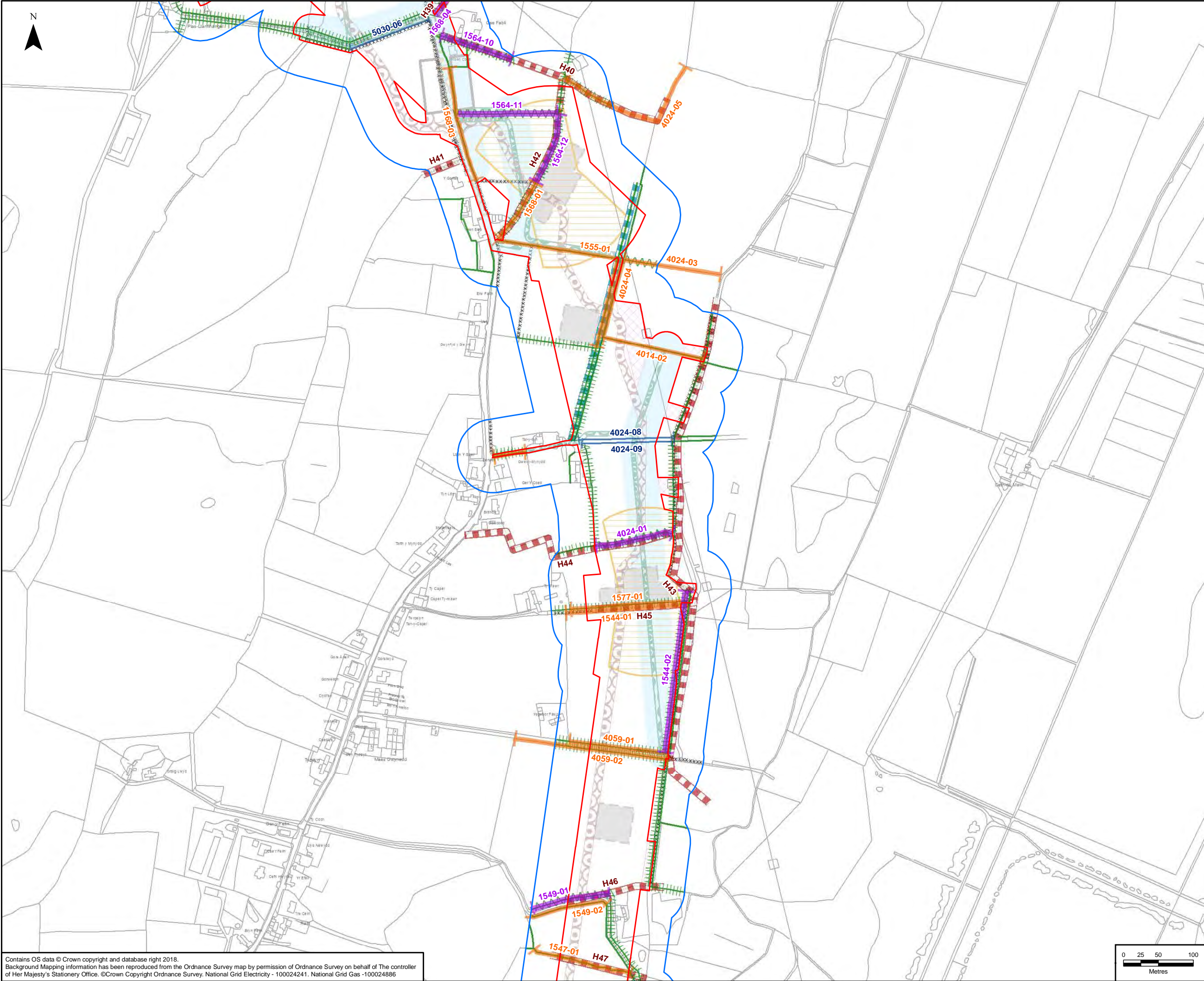
**NOTES**

PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.

A	31/07/2018	ENVIRONMENTAL STATEMENT	AB	LS	NL
Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.9.2.5					
Document Title: FIGURE 1 HEDGEROW SURVEY RESULTS SECTION C					
Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 11 of 29	Rev: A	

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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

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Rev	Date	Description	GIS	Chk	App

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Scheme: NORTH WALES CONNECTION PROJECT

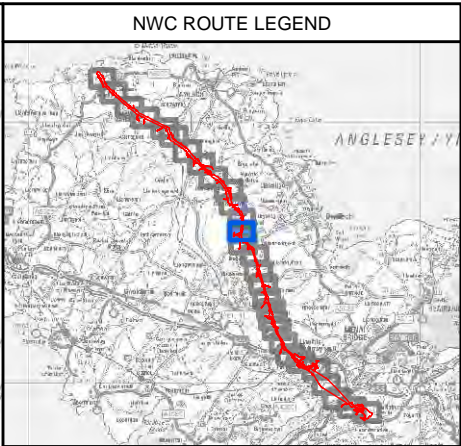
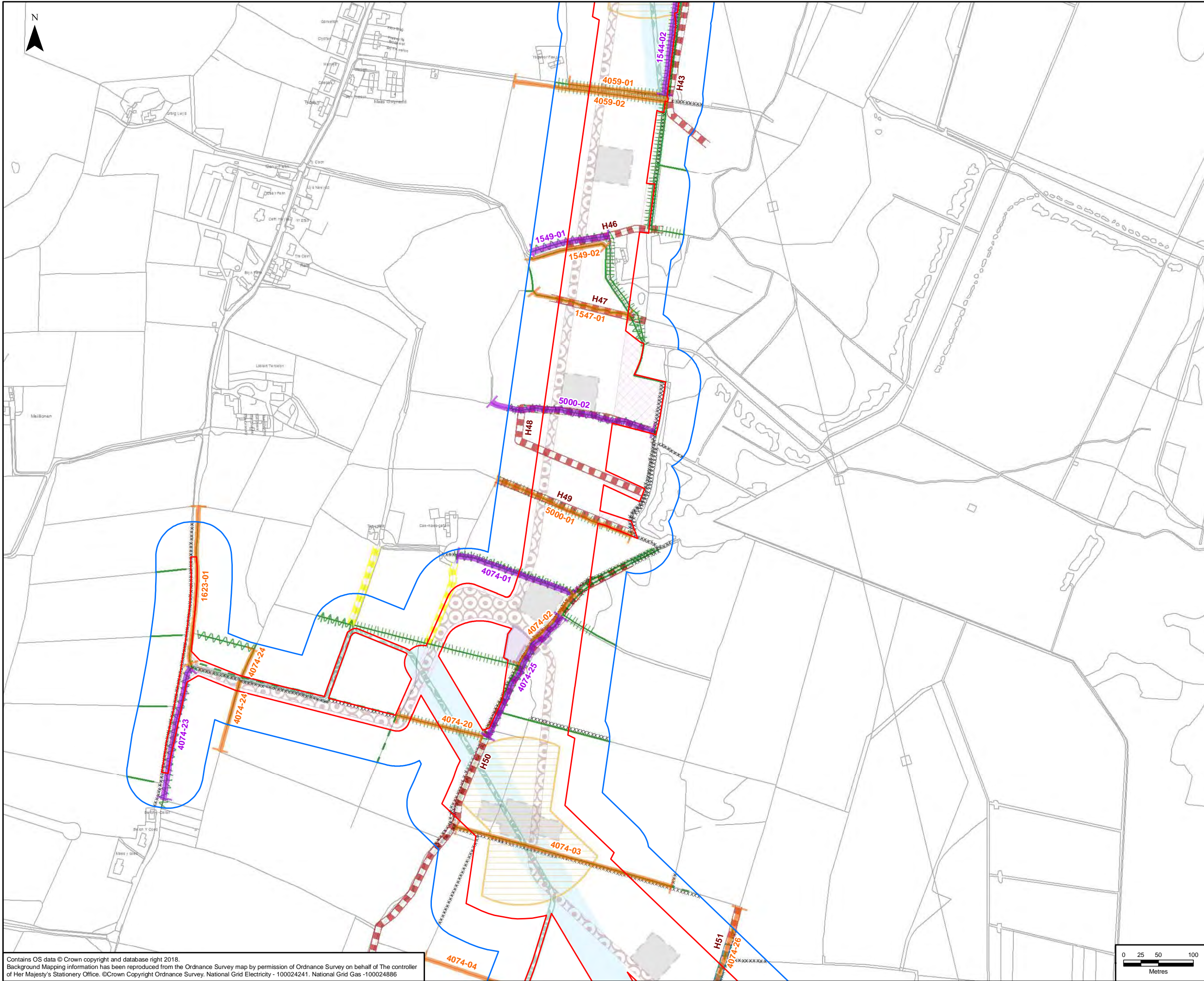
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Document Title: FIGURE 1  
HEDGEROW SURVEY RESULTS  
SECTION C

Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 12 of 29	Rev: A	

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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

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Rev	Date	Description	GIS	Chk	App

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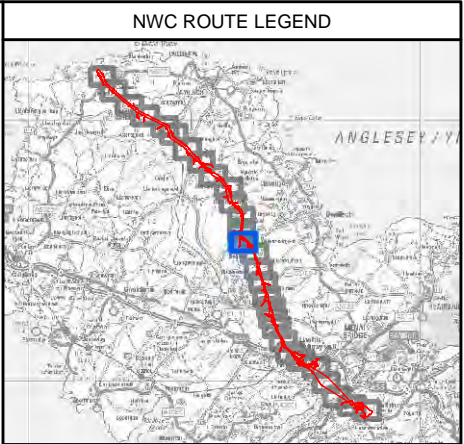
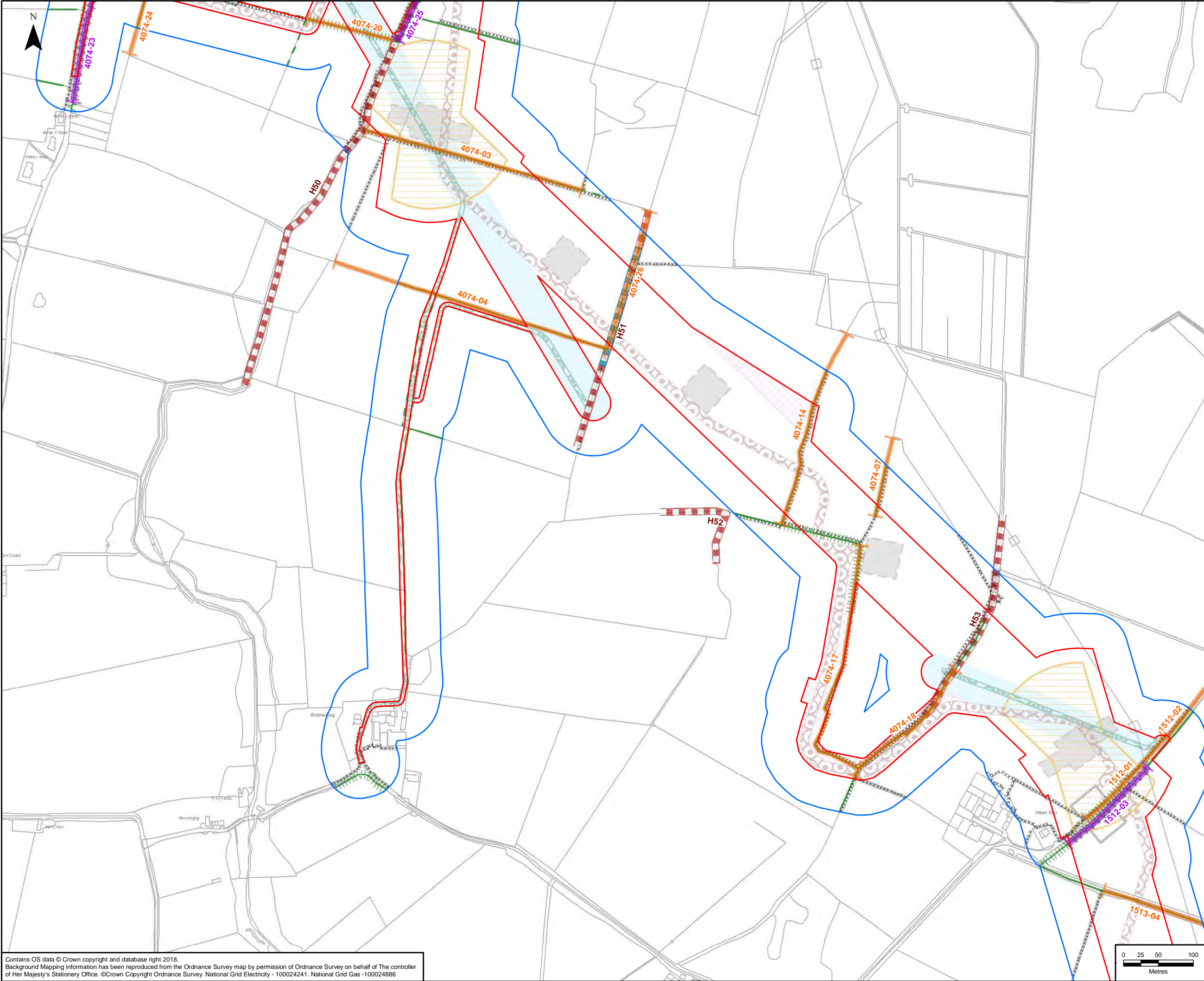
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HEDGEROW SURVEY RESULTS  
SECTION C

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LEGEND

ORDER LIMITS - OPTION A

50M BUFFER OF ORDER LIMITS - OPTION A

SECTION CUTLINES

CONDUCTOR PULLING POSITION

PYLON WORKING AREA

SCAFFOLD WORKING AREA

AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED

BRIDGE WORKING AREA

ACCESS - NATIONAL GRID

ACCESS - THIRD PARTY

ACCESS - NATIONAL GRID AND THIRD

HIGHWAY WORKS

DRAINAGE MITIGATION AREA

CONSTRUCTION COMPOUND

AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

BOUNDARY FEATURES

HISTORICALLY IMPORTANT BOUNDARY

CONFIRMED CLODDIAU

POTENTIAL CLODDIAU

PHASE 1 HABITAT SURVEY HEDGES

J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH

J2.1.2 - INTACT HEDGE - SPECIES-POOR

J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH

J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR

J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH

J2.3.2 - HEDGE WITH TREES - SPECIES-POOR

OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

HEDGEROW SURVEY RESULTS

ECOLOGICALLY IMPORTANT HEDGEROW

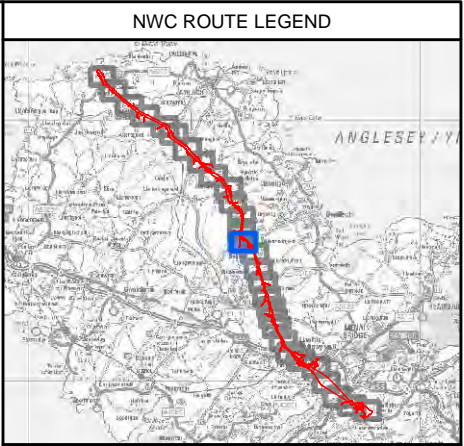
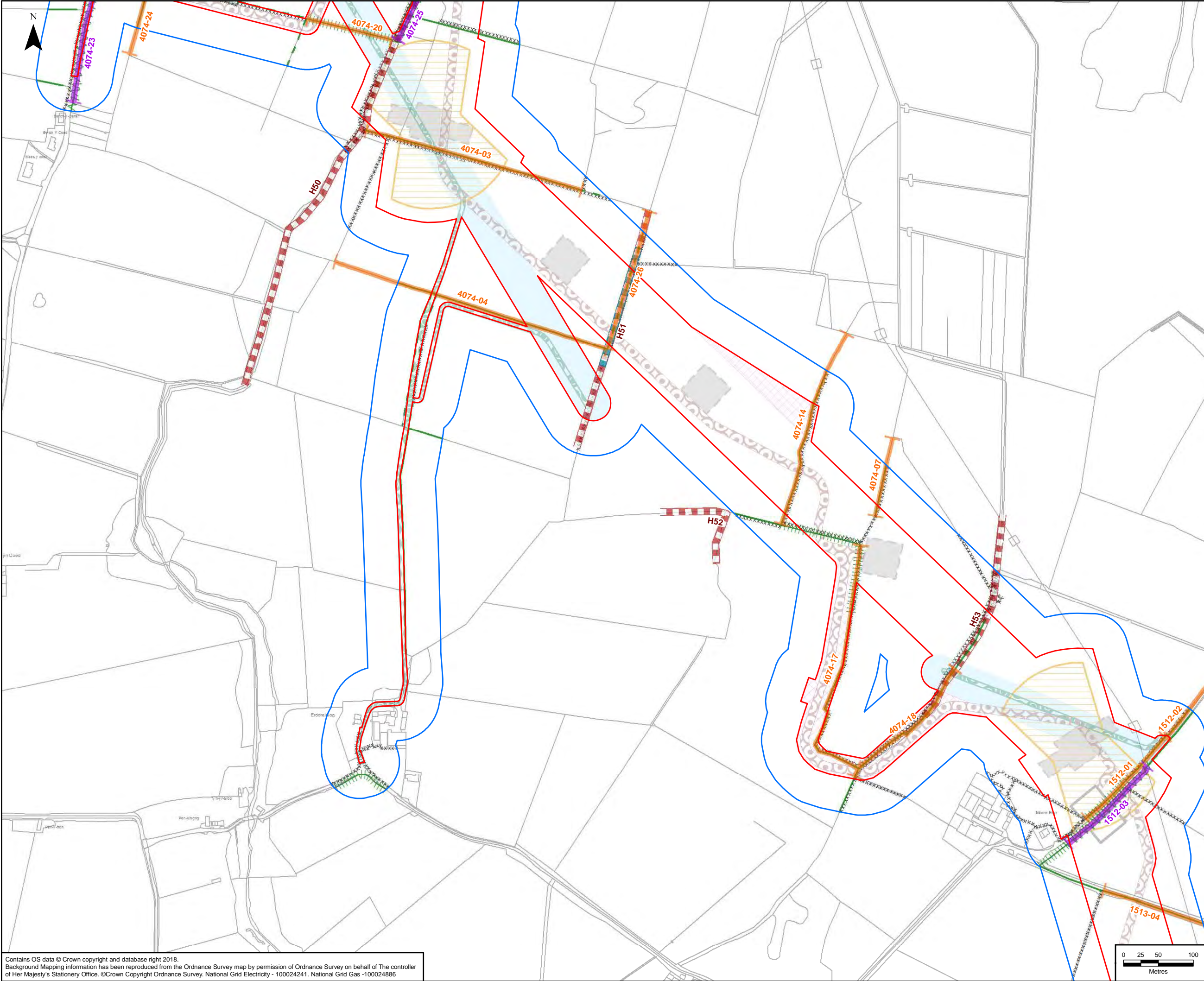
ECOLOGICALLY UNIMPORTANT HEDGEROW





























BOUNDARY SURVEYED - NOT A HEDGE

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Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.9.2.5					
Document Title: FIGURE 1 HEDGEROW SURVEY RESULTS SECTION C OPTION A					
Creator:	Date:	Checker:	Date:	Approver:	Date:
AB	31/07/2018	LS	31/07/2018	NL	31/07/2018
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:5,000	A3	14 of 29 Option A	A	

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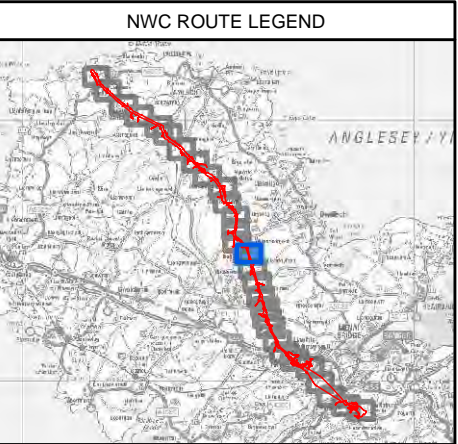
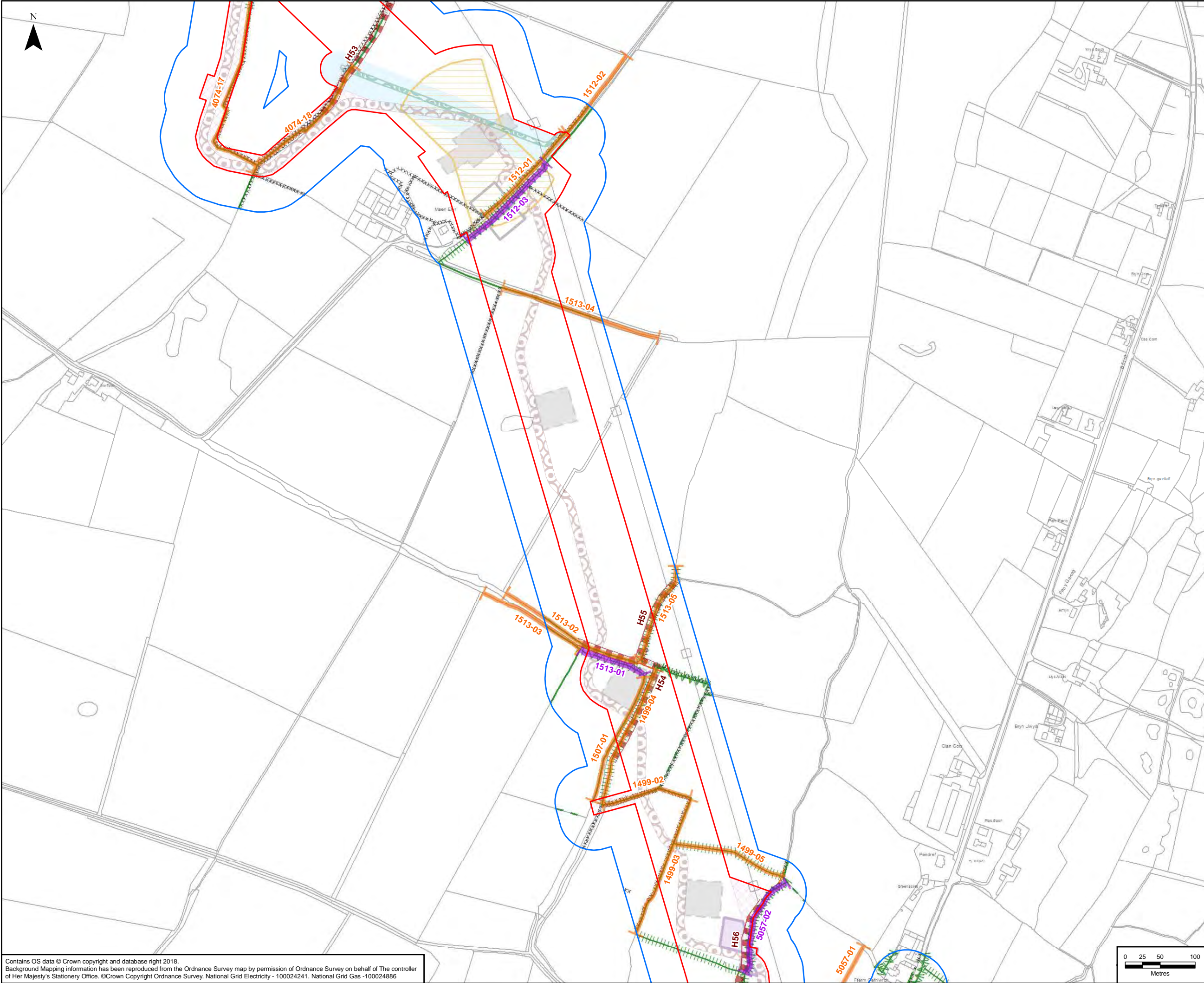


LEGEND	
	ORDER LIMITS - OPTION B
	50M BUFFER OF ORDER LIMITS - OPTION B
	SECTION CUTLINES
	CONDUCTOR PULLING POSITION
	PYLON WORKING AREA
	SCAFFOLD WORKING AREA
	AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
	BRIDGE WORKING AREA
	ACCESS - NATIONAL GRID
	ACCESS - THIRD PARTY
	ACCESS - NATIONAL GRID AND THIRD
	HIGHWAY WORKS
	DRAINAGE MITIGATION AREA
	CONSTRUCTION COMPOUND
	AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
BOUNDARY FEATURES	
	HISTORICALLY IMPORTANT BOUNDARY
	CONFIRMED CLODDIAU
	POTENTIAL CLODDIAU
PHASE 1 HABITAT SURVEY HEDGES	
	J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
	J2.1.2 - INTACT HEDGE - SPECIES-POOR
	J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
	J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
	J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
	J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
	OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE
HEDGEROW SURVEY RESULTS	
	ECOLOGICALLY IMPORTANT HEDGEROW
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Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.9.2.5					
Document Title: FIGURE 1 HEDGEROW SURVEY RESULTS SECTION C OPTION B					
Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 14 of 29 Option B	Rev: A	

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**LEGEND**

- ORDER LIMITS - OPTION A
- 50M BUFFER OF ORDER LIMITS - OPTION A
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
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- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

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- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
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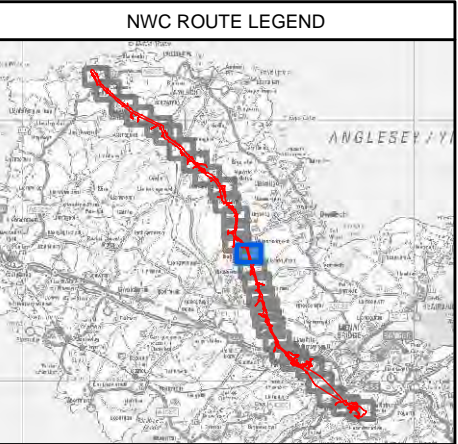
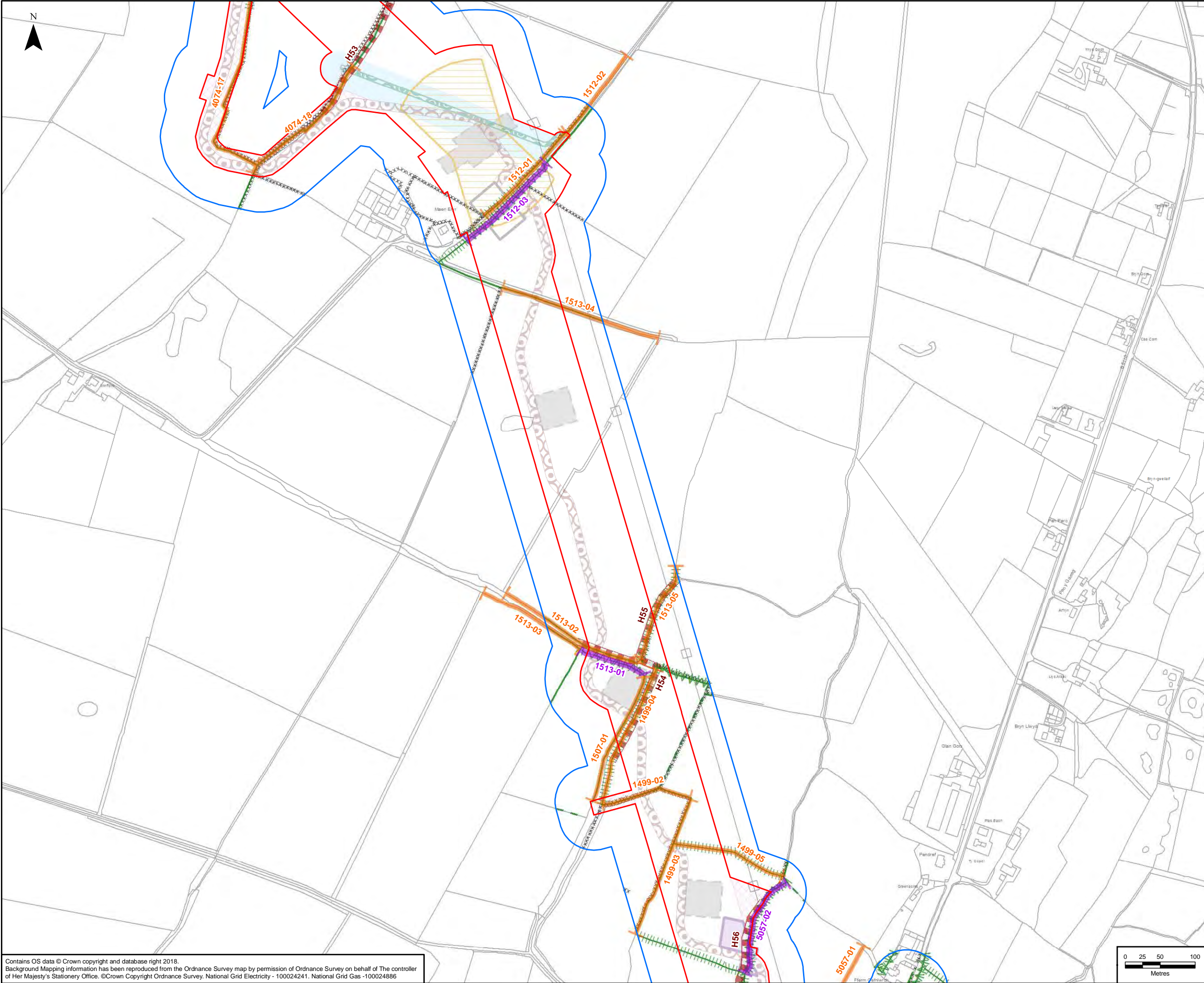
Document Number: 5.9.2.5

Document Title: FIGURE 1  
HEDGEROW SURVEY RESULTS  
SECTION C OPTION A

Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 15 of 29 Option A	Rev: A	

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**LEGEND**

- ORDER LIMITS - OPTION B
- 50M BUFFER OF ORDER LIMITS - OPTION B
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

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- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
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- BOUNDARY SURVEYED - NOT A HEDGE

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Scheme: NORTH WALES CONNECTION PROJECT

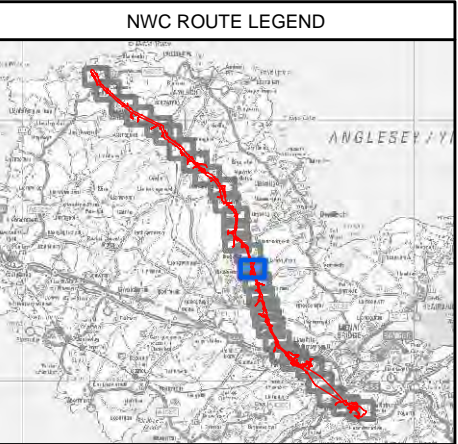
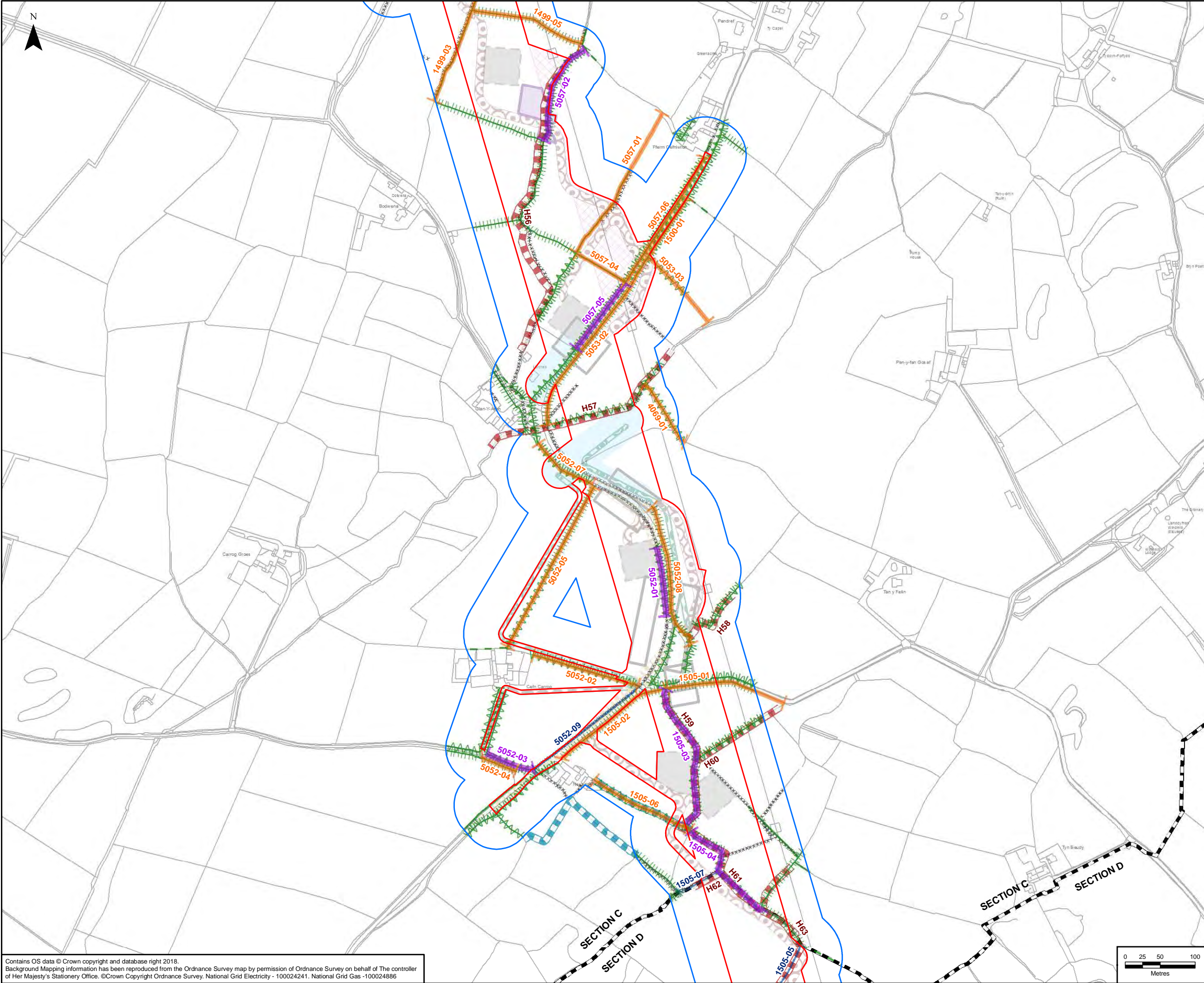
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Document Title: FIGURE 1  
HEDGEROW SURVEY RESULTS  
SECTION C OPTION B

Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 15 of 29 Option B	Rev: A	

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**LEGEND**

- ORDER LIMITS - OPTION A
- 50M BUFFER OF ORDER LIMITS - OPTION A
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
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**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU
- PHASE 1 HABITAT SURVEY HEDGES
- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
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- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

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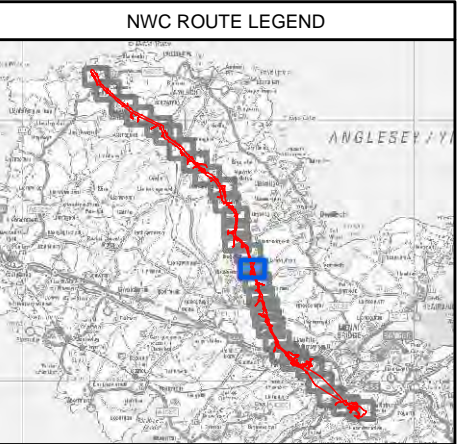
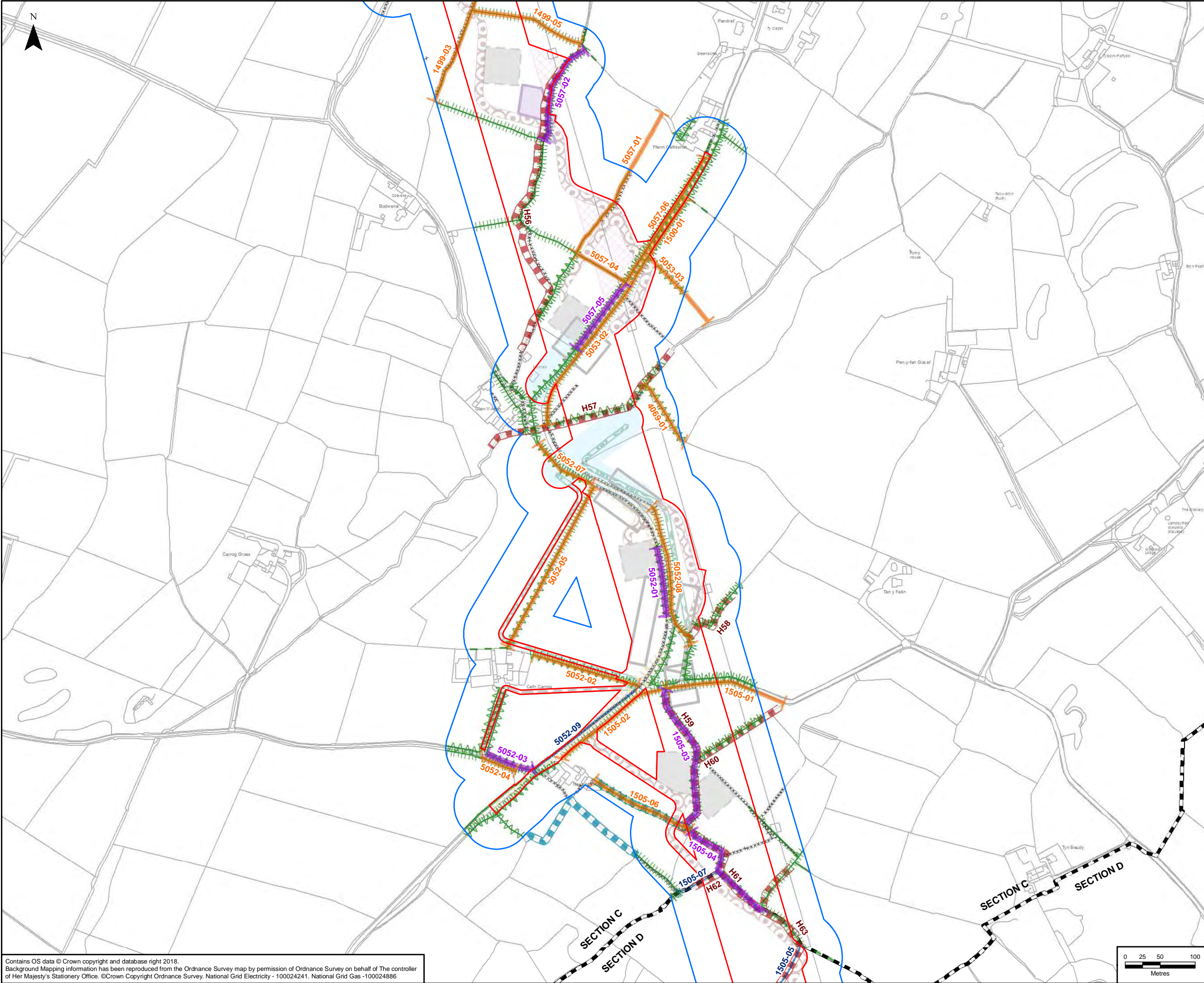
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HEDGEROW SURVEY RESULTS  
SECTION C OPTION A

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Document Type:	Scale:	Format:	Sheets:	Rev:
FIGURE	1:5,000	A3	16 of 29 Option A	A

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**LEGEND**

- ORDER LIMITS - OPTION B
- 50M BUFFER OF ORDER LIMITS - OPTION B
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
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**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU
- PHASE 1 HABITAT SURVEY HEDGES
- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.

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A	31/07/2018	ENVIRONMENTAL STATEMENT	AB	LS	NL

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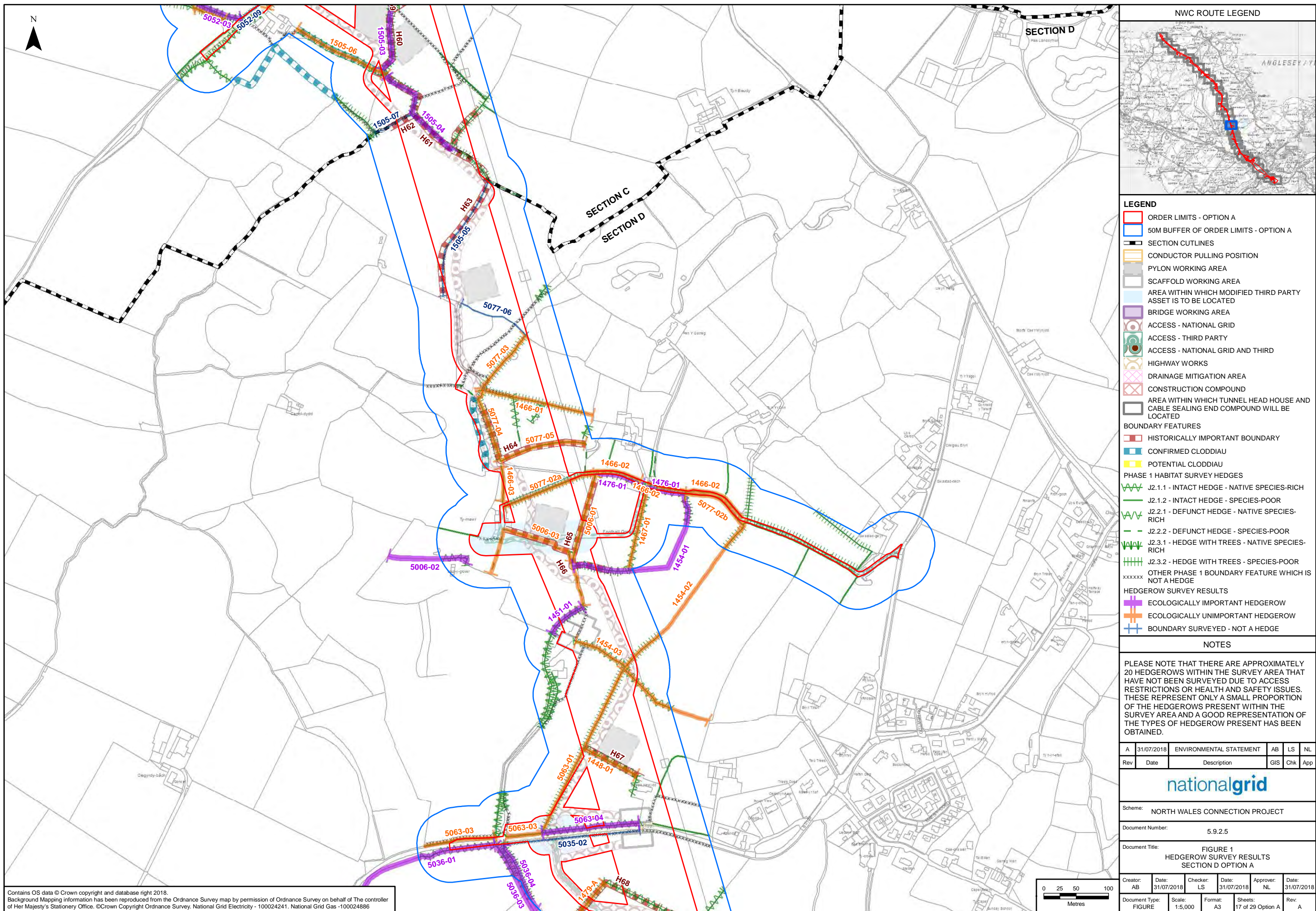
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HEDGEROW SURVEY RESULTS  
SECTION C OPTION B

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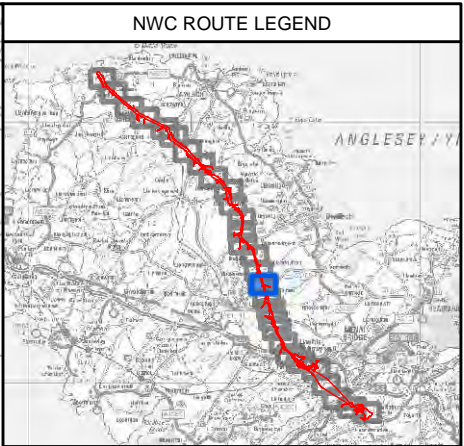
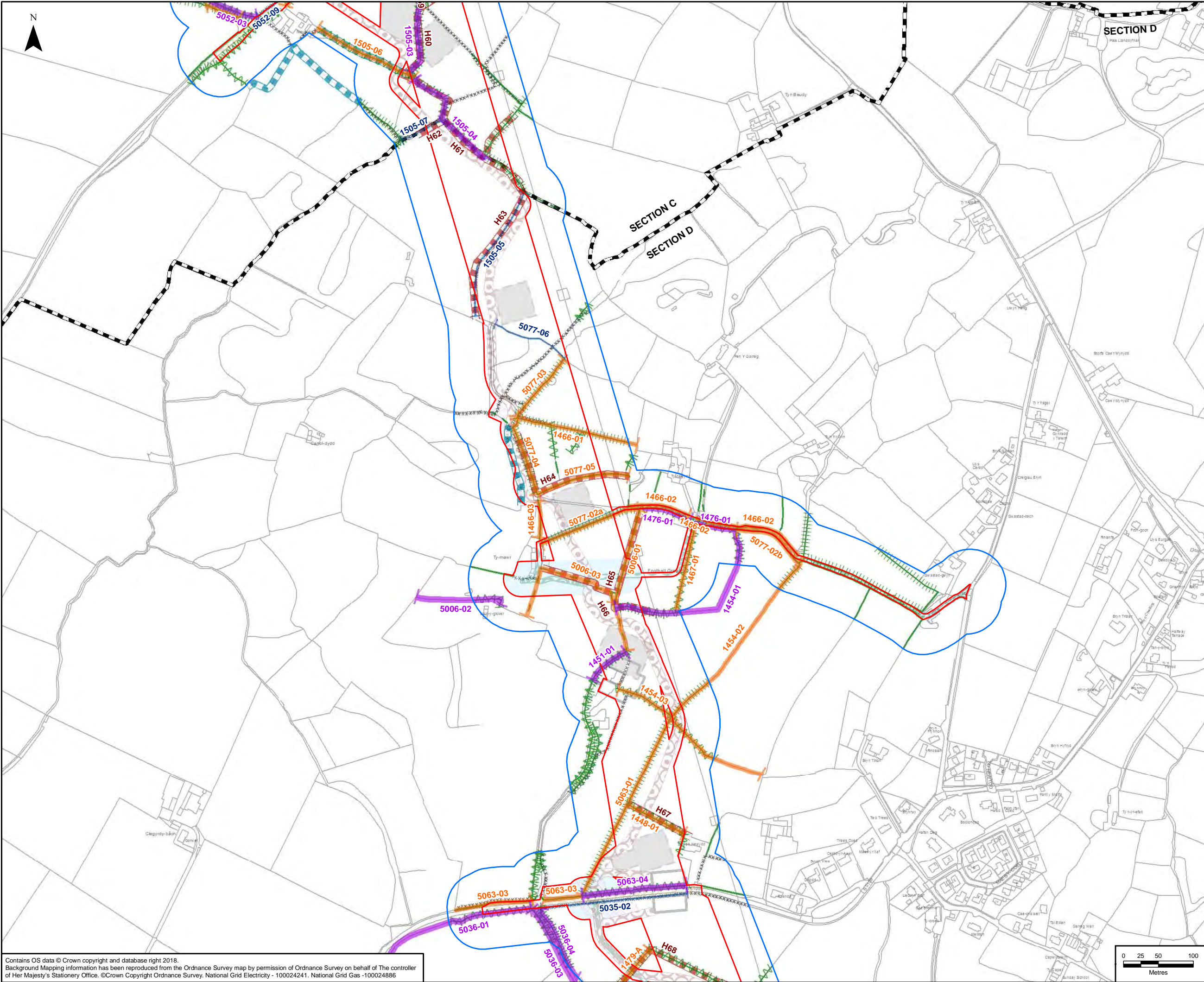
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FIGURE	1:5,000	A3	16 of 29 Option B	A

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**LEGEND**

- ORDER LIMITS - OPTION B
- 50M BUFFER OF ORDER LIMITS - OPTION B
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.

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Rev	Date	Description	GIS	Chk	App

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Document Number: 5.9.2.5

Document Title: FIGURE 1  
HEDGEROW SURVEY RESULTS  
SECTION D OPTION B

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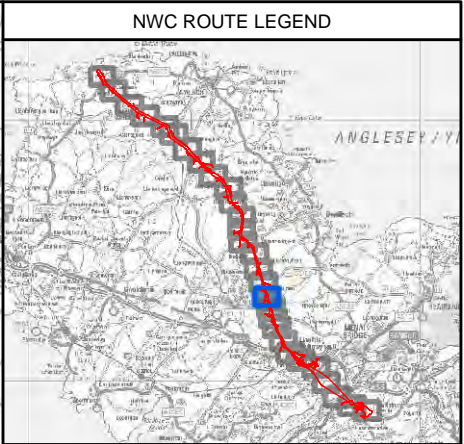
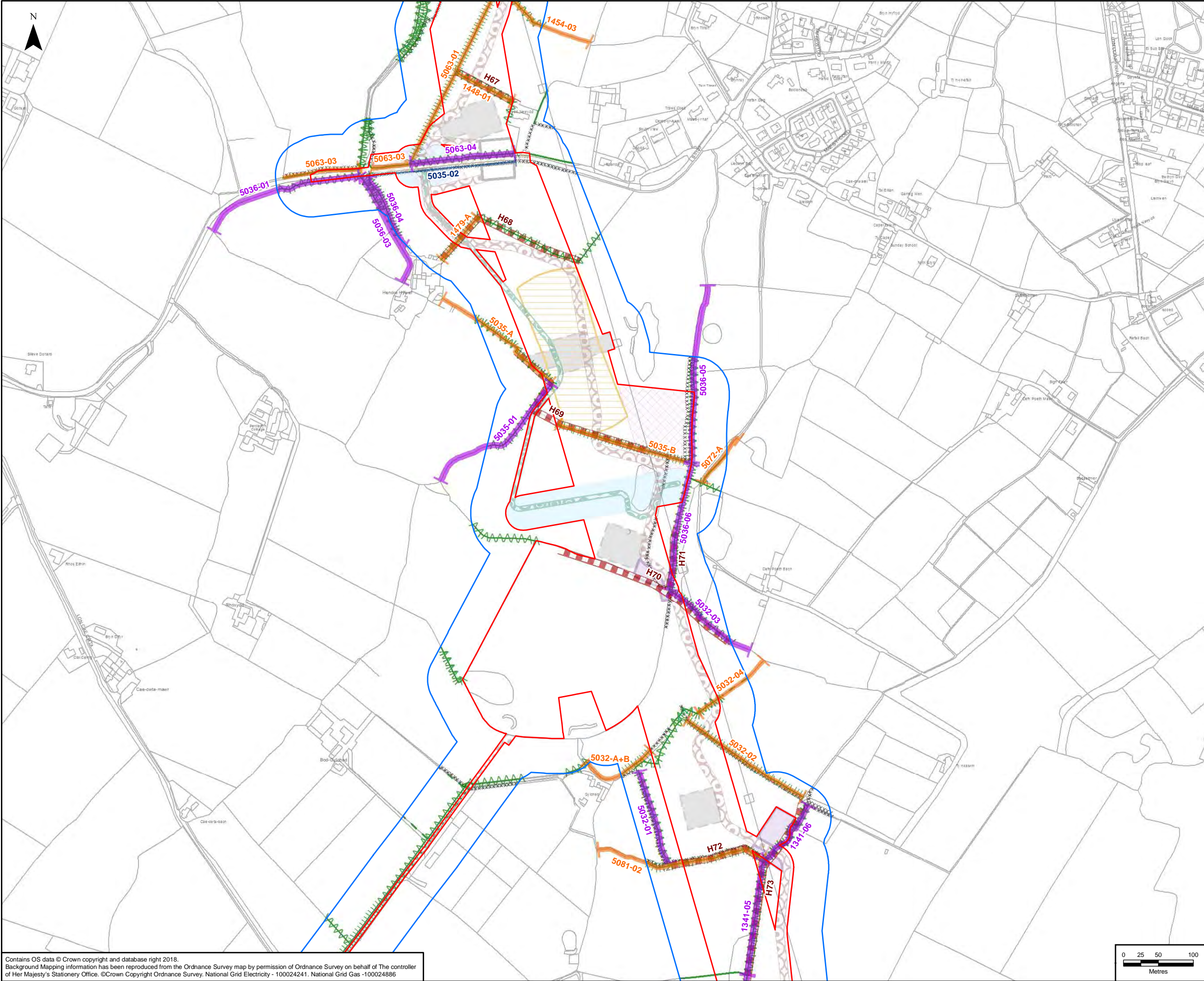
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FIGURE	1:5,000	A3	17 of 29 Option B	A

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**LEGEND**

- ORDER LIMITS - OPTION B
- 50M BUFFER OF ORDER LIMITS - OPTION B
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

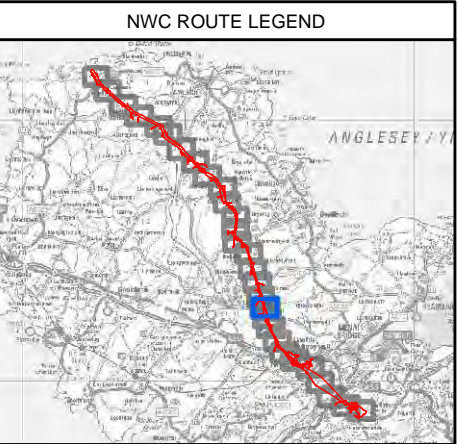
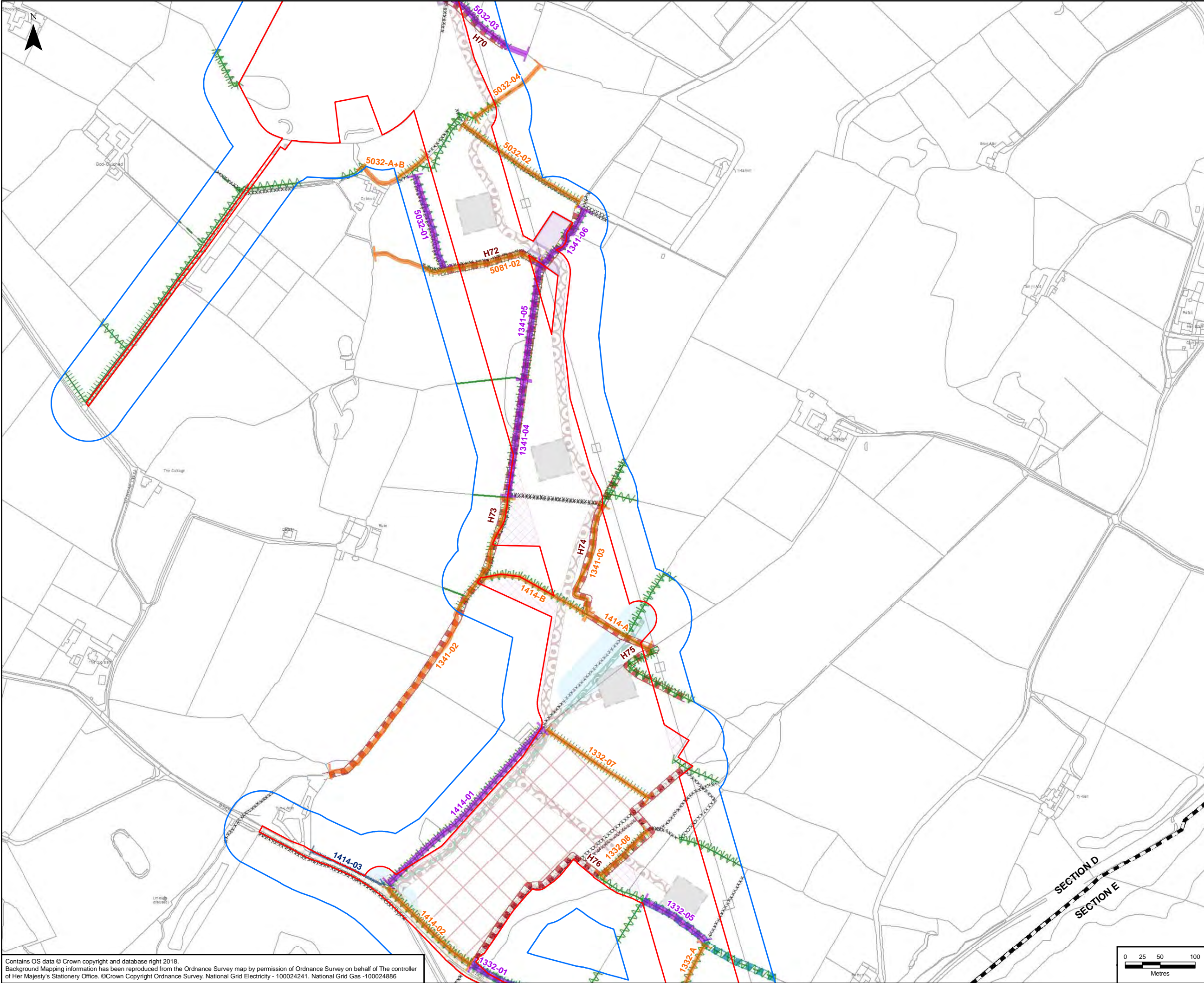
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Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.9.2.5					
Document Title: FIGURE 1 HEDGEROW SURVEY RESULTS SECTION D OPTION B					
Creator:	Date:	Checker:	Date:	Approver:	Date:
AB	31/07/2018	LS	31/07/2018	NL	31/07/2018
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:5,000	A3	18 of 29 Option B	A	

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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.

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Rev	Date	Description	GIS	Chk	App

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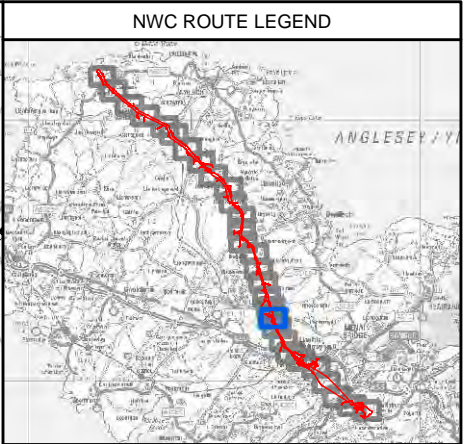
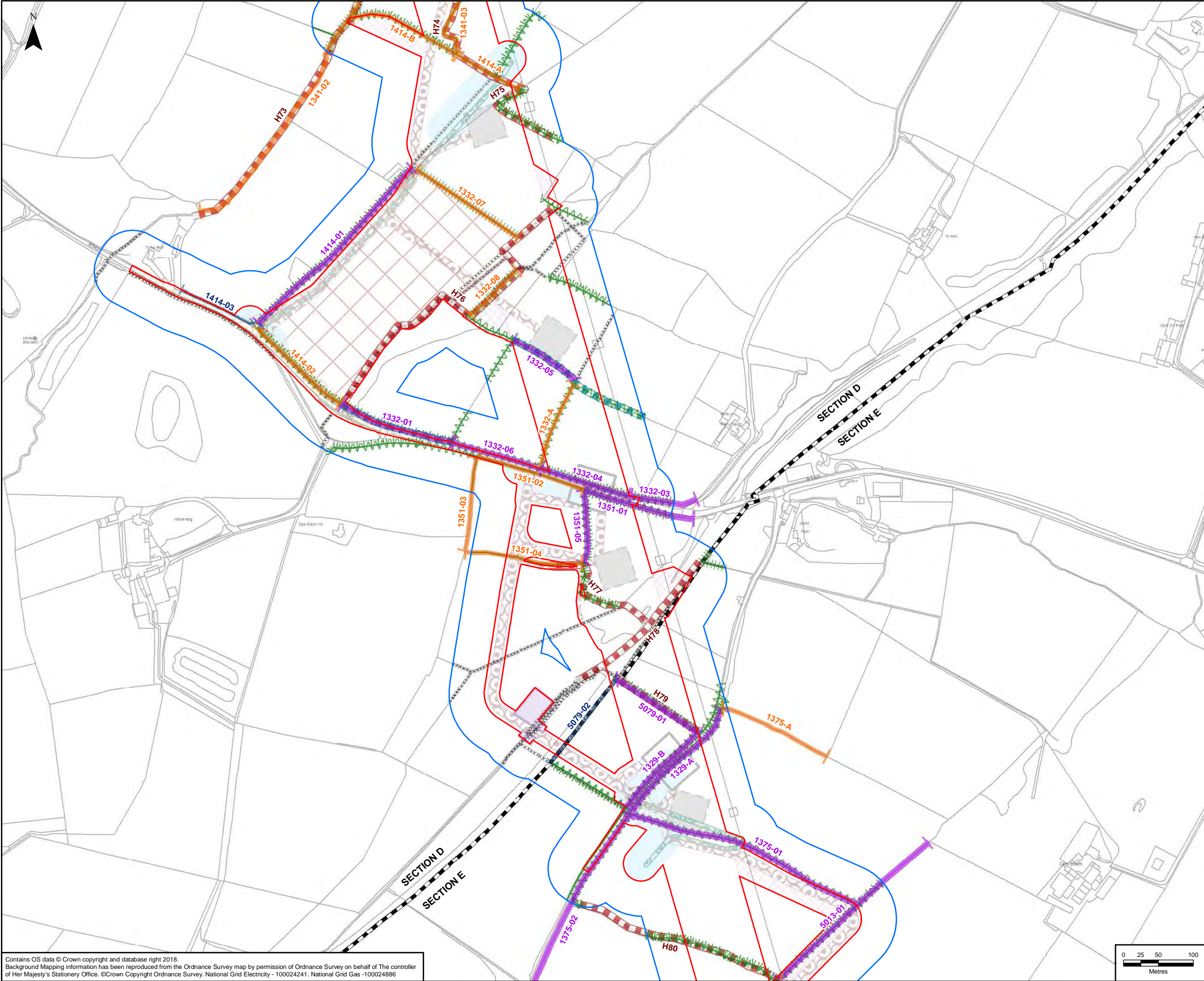
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Document Title: FIGURE 1  
HEDGEROW SURVEY RESULTS  
SECTION D

Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 19 of 29	Rev: A	

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**LEGEND**

ORDER LIMITS

50M BUFFER OF ORDER LIMITS

SECTION CUTLINES

CONDUCTOR PULLING POSITION

PYLON WORKING AREA

SCAFFOLD WORKING AREA

AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED

BRIDGE WORKING AREA

ACCESS - NATIONAL GRID

ACCESS - THIRD PARTY

ACCESS - NATIONAL GRID AND THIRD

HIGHWAY WORKS

DRAINAGE MITIGATION AREA

CONSTRUCTION COMPOUND

AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

BOUNDARY FEATURES

HISTORICALLY IMPORTANT BOUNDARY

CONFIRMED CLODDIAU

POTENTIAL CLODDIAU

PHASE 1 HABITAT SURVEY HEDGES

J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH

J2.1.2 - INTACT HEDGE - SPECIES-POOR

J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH

J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR

J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH

J2.3.2 - HEDGE WITH TREES - SPECIES-POOR

OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

HEDGEROW SURVEY RESULTS

ECOLOGICALLY IMPORTANT HEDGEROW

ECOLOGICALLY UNIMPORTANT HEDGEROW

BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

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Rev	Date	Description	GIS	Chk	App

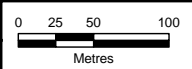
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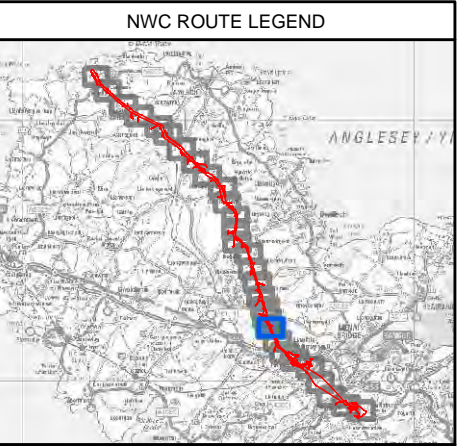
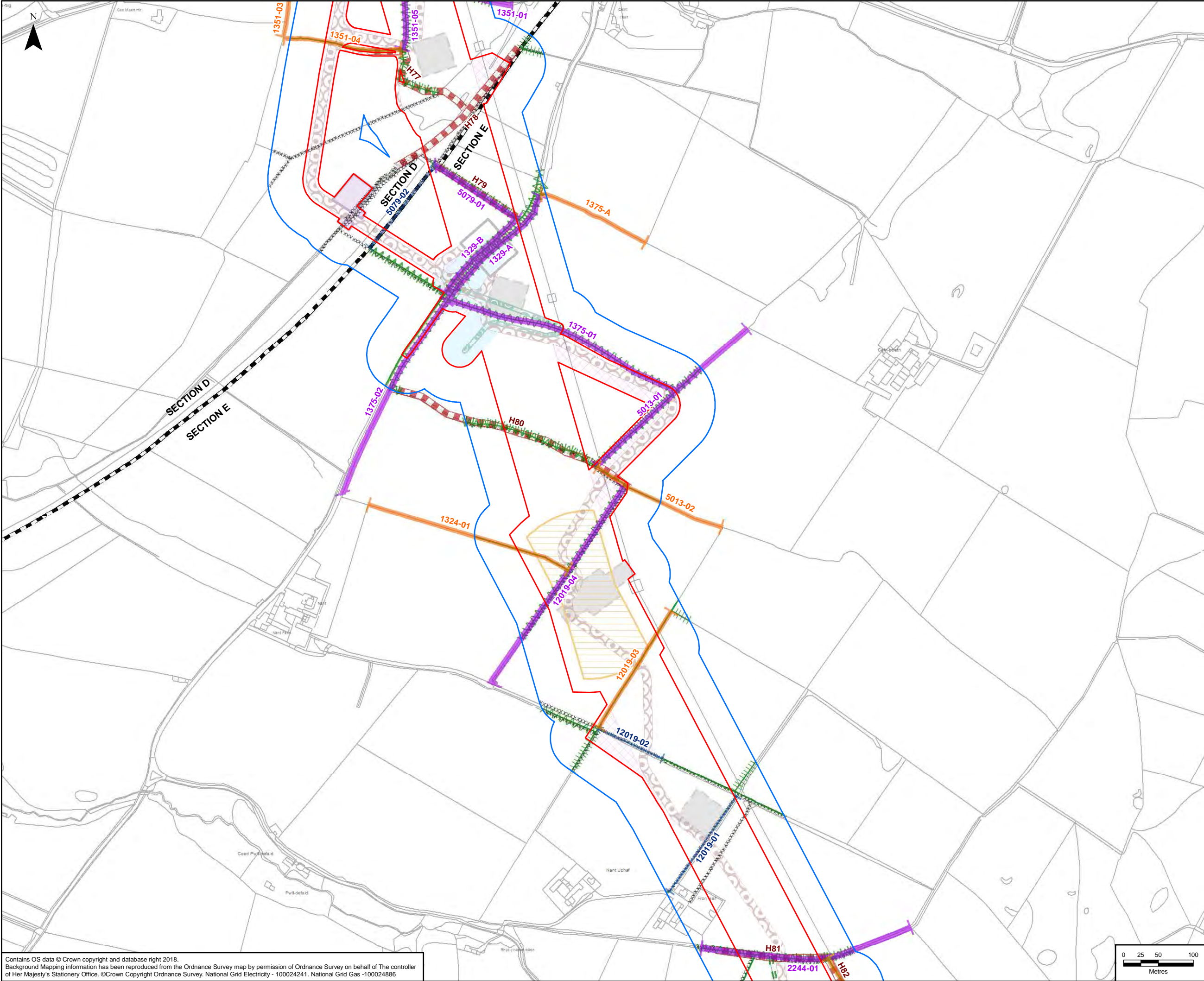
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HEDGEROW SURVEY RESULTS  
SECTION D

Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
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**LEGEND**

ORDER LIMITS

50M BUFFER OF ORDER LIMITS

SECTION CUTLINES

CONDUCTOR PULLING POSITION

PYLON WORKING AREA

SCAFFOLD WORKING AREA

AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED

BRIDGE WORKING AREA

ACCESS - NATIONAL GRID

ACCESS - THIRD PARTY

ACCESS - NATIONAL GRID AND THIRD

HIGHWAY WORKS

DRAINAGE MITIGATION AREA

CONSTRUCTION COMPOUND

AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

HISTORICALLY IMPORTANT BOUNDARY

CONFIRMED CLODDIAU

POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH

J2.1.2 - INTACT HEDGE - SPECIES-POOR

J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH

J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR

J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH

J2.3.2 - HEDGE WITH TREES - SPECIES-POOR

OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

ECOLOGICALLY IMPORTANT HEDGEROW

ECOLOGICALLY UNIMPORTANT HEDGEROW

BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.

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Rev	Date	Description	GIS	Chk	App

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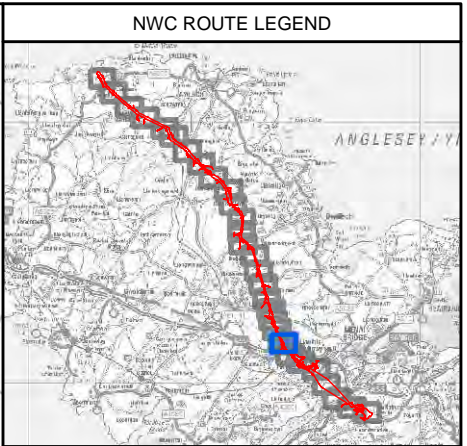
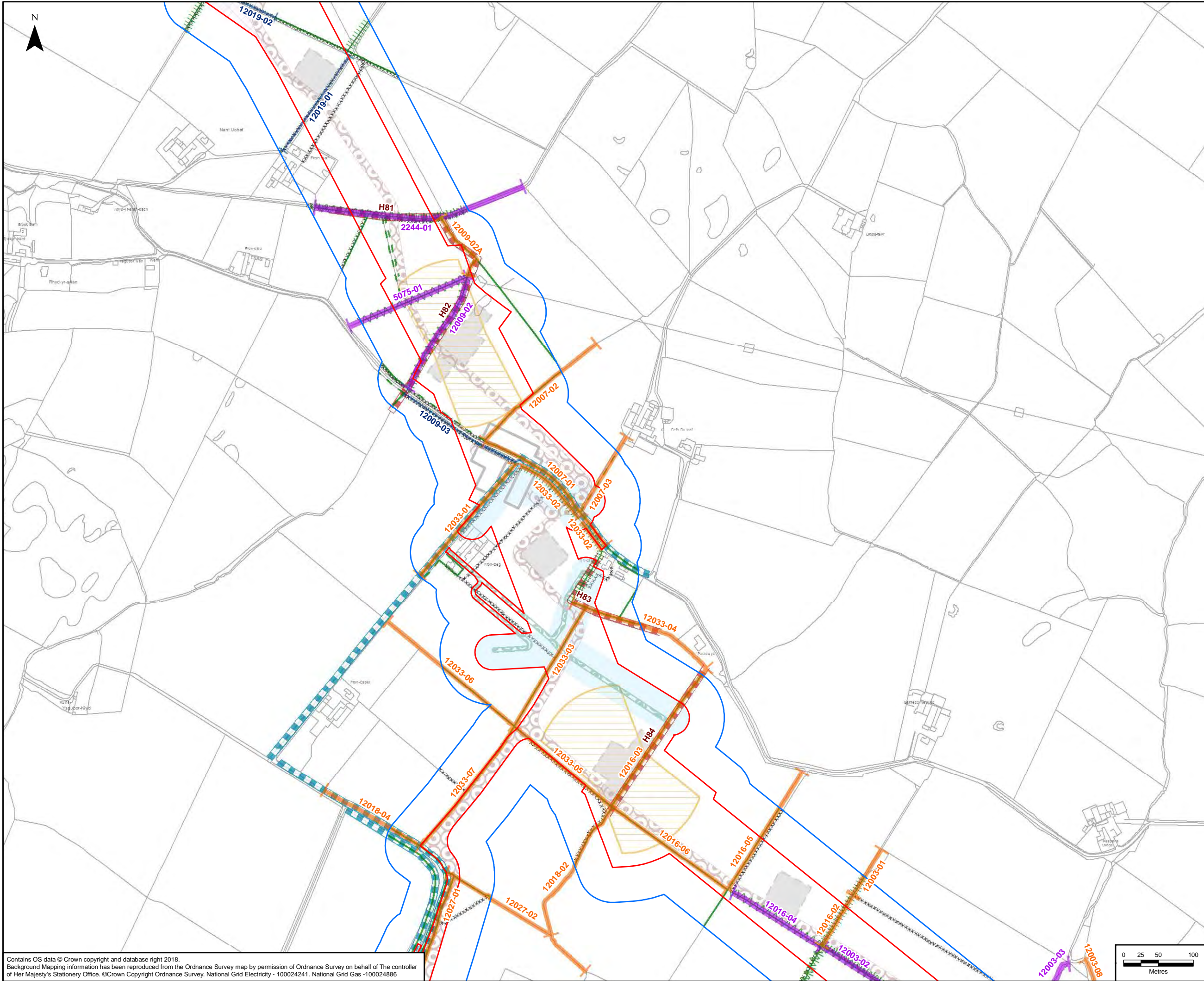
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HEDGEROW SURVEY RESULTS  
SECTION E

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AB	31/07/2018	LS	31/07/2018	NL	31/07/2018
Document Type:	Scale:	Format:	Sheets:	Rev:	
FIGURE	1:5,000	A3	21 of 29	A	





**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

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A	31/07/2018	ENVIRONMENTAL STATEMENT	AB	LS	NL
Rev	Date	Description	GIS	Chk	App

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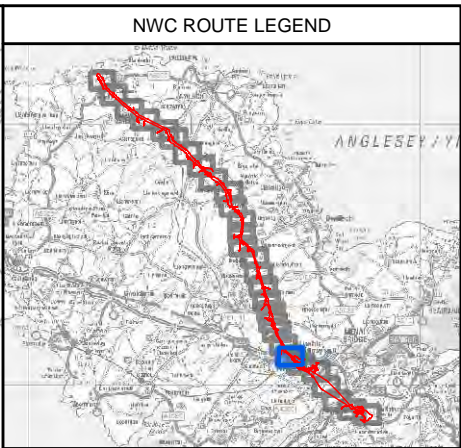
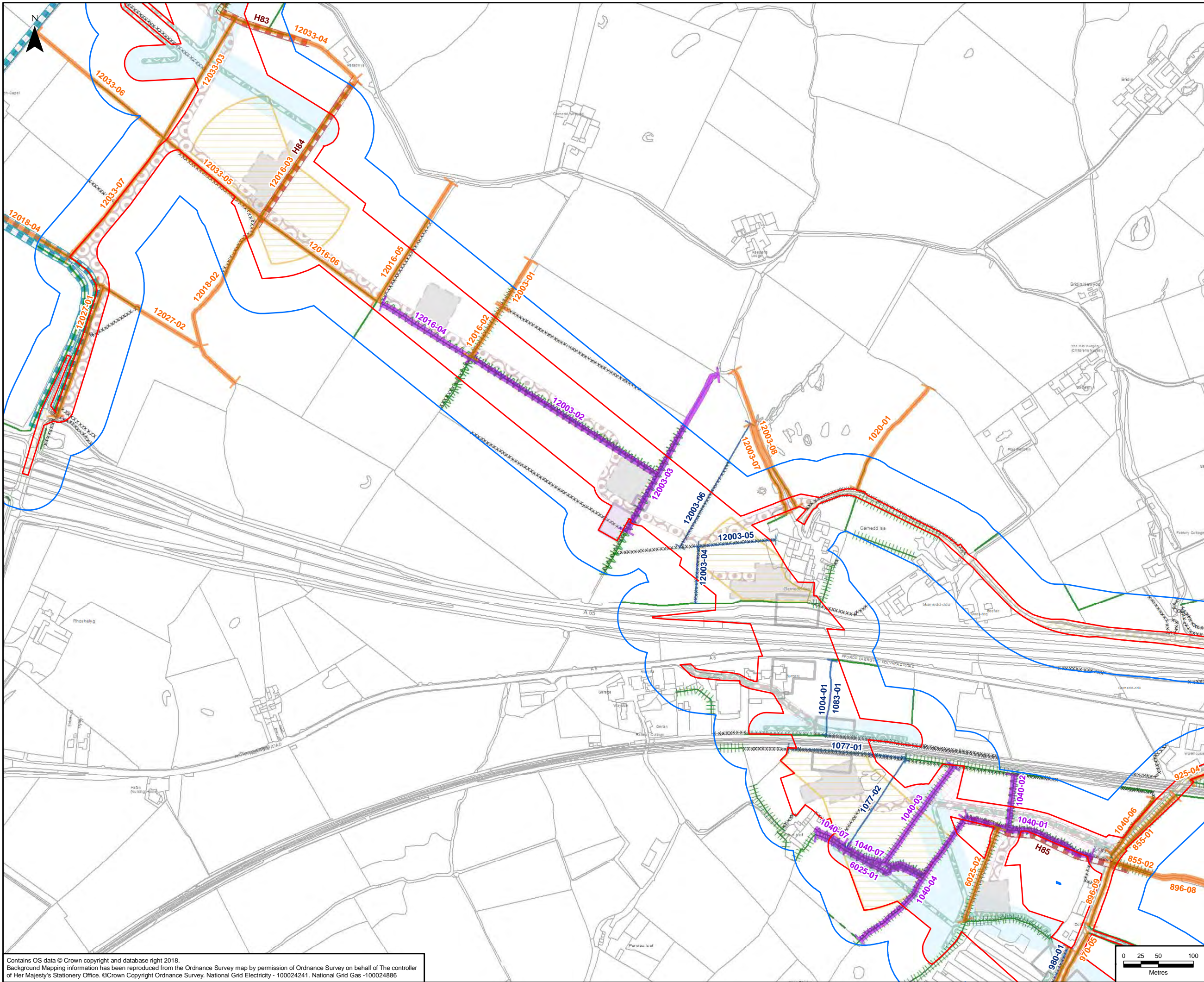
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Document Title: FIGURE 1  
HEDGEROW SURVEY RESULTS  
SECTION E

Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 22 of 29	Rev: A	

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LEGEND	
	ORDER LIMITS
	50M BUFFER OF ORDER LIMITS
	SECTION CUTLINES
	CONDUCTOR PULLING POSITION
	PYLON WORKING AREA
	SCAFFOLD WORKING AREA
	AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
	BRIDGE WORKING AREA
	ACCESS - NATIONAL GRID
	ACCESS - THIRD PARTY
	ACCESS - NATIONAL GRID AND THIRD
	HIGHWAY WORKS
	DRAINAGE MITIGATION AREA
	CONSTRUCTION COMPOUND
	AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
BOUNDARY FEATURES	
	HISTORICALLY IMPORTANT BOUNDARY
	CONFIRMED CLODDIAU
	POTENTIAL CLODDIAU
PHASE 1 HABITAT SURVEY HEDGES	
	J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
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	J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
	OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE
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	ECOLOGICALLY UNIMPORTANT HEDGEROW
	BOUNDARY SURVEYED - NOT A HEDGE

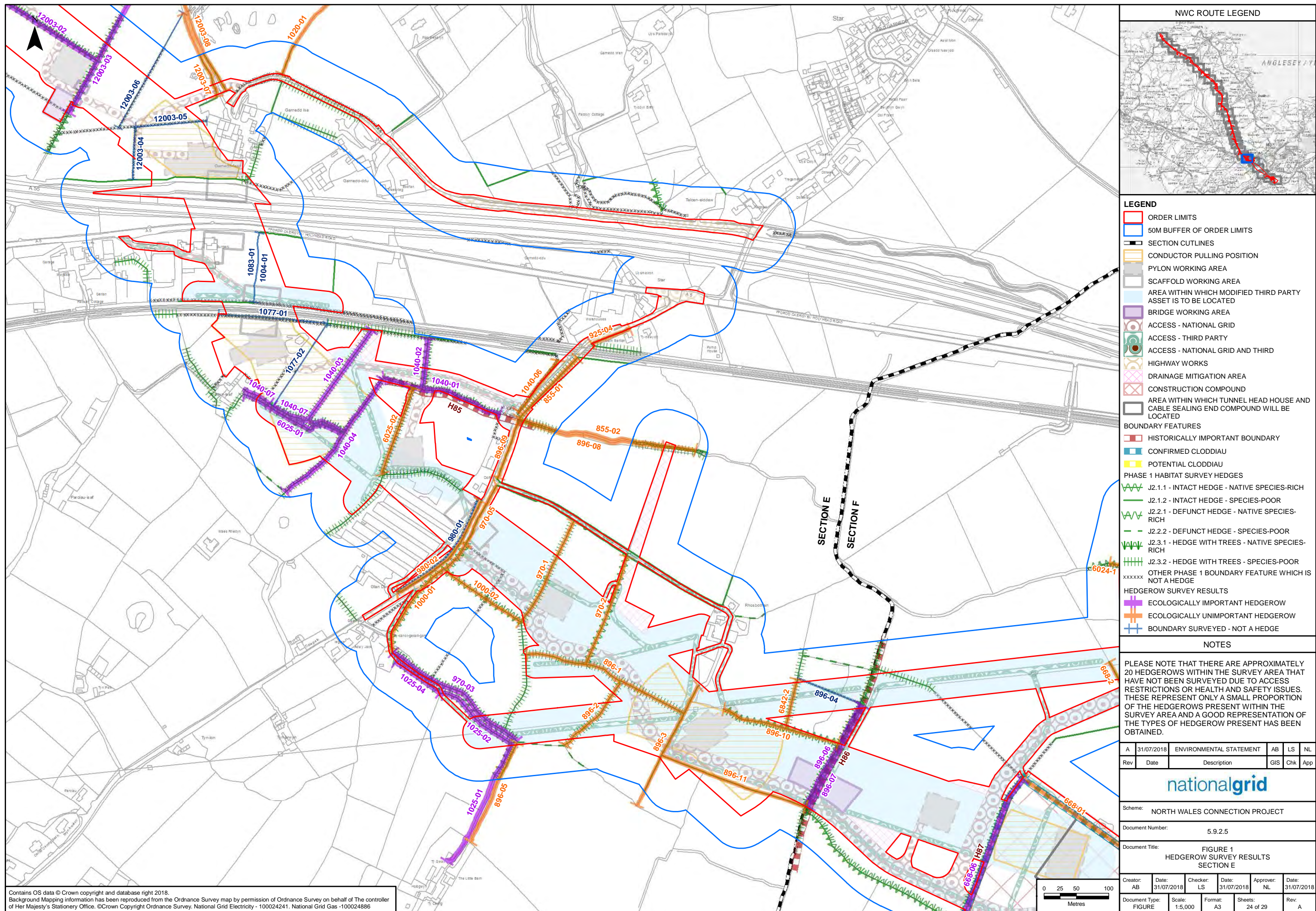
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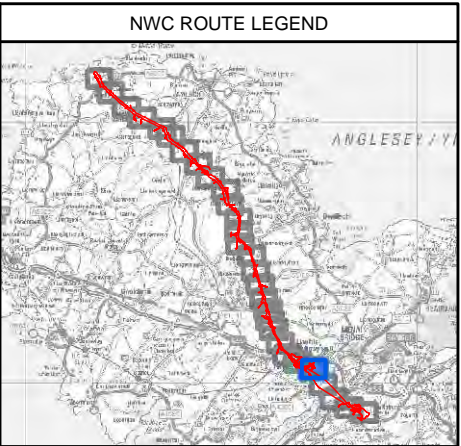
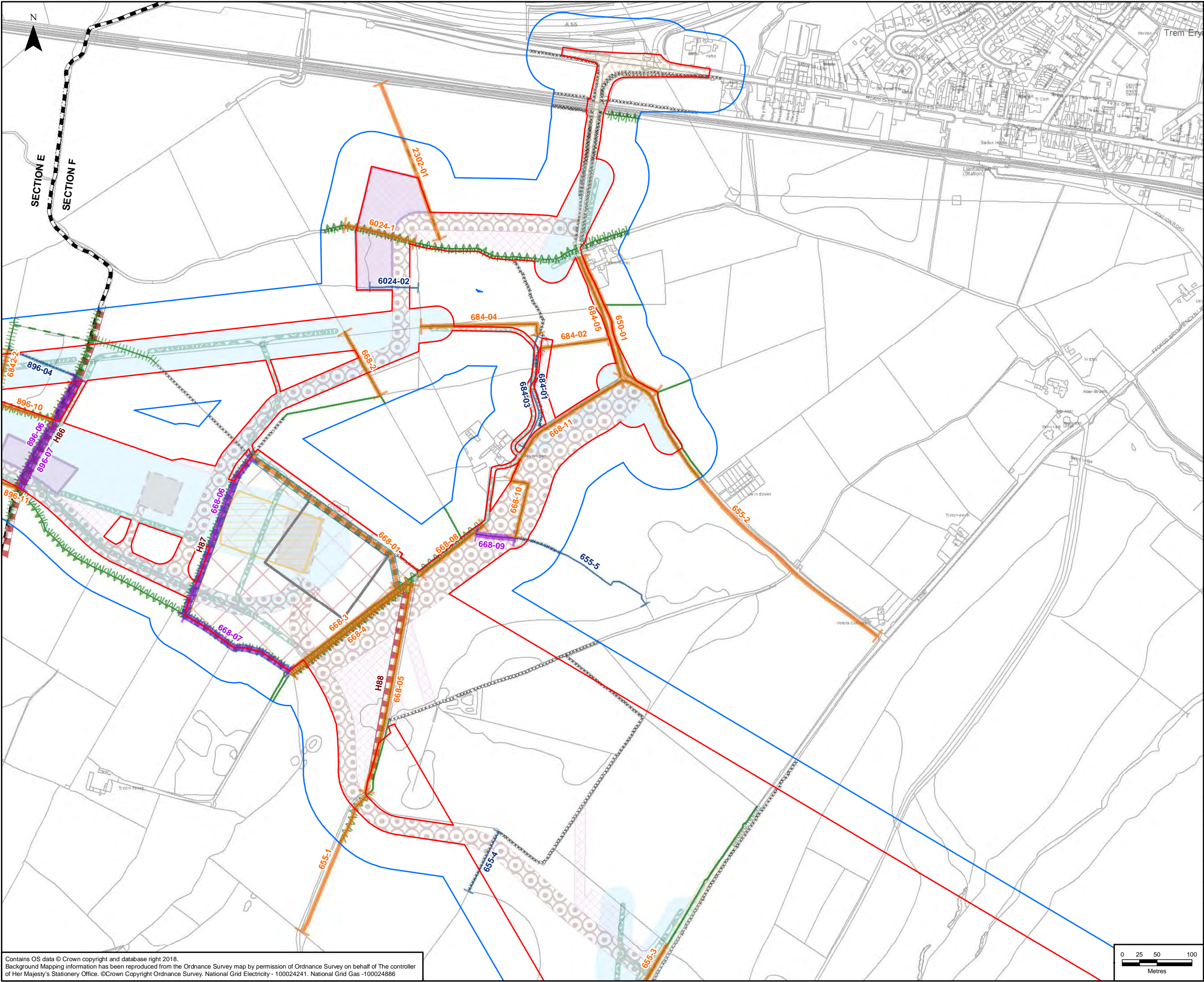
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Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.9.2.5					
Document Title: FIGURE 1 HEDGEROW SURVEY RESULTS SECTION E					
Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
Document Type: FIGURE	Scale: 1:5,000	Format: A3	Sheets: 23 of 29	Rev: A	

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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
- J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
- OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE

**HEDGEROW SURVEY RESULTS**

- ECOLOGICALLY IMPORTANT HEDGEROW
- ECOLOGICALLY UNIMPORTANT HEDGEROW
- BOUNDARY SURVEYED - NOT A HEDGE

**NOTES**

PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.

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Rev	Date	Description	GIS	Chk	App

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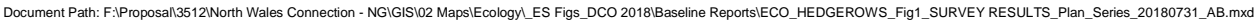
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Document Title: FIGURE 1  
HEDGEROW SURVEY RESULTS  
SECTION F

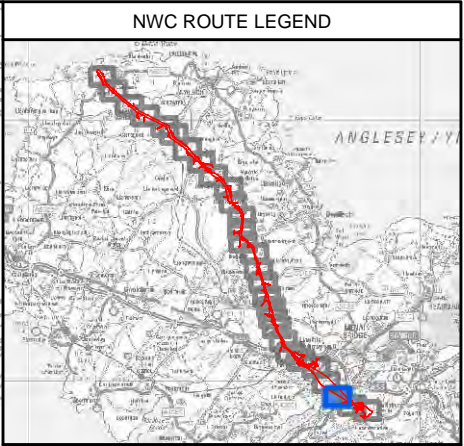
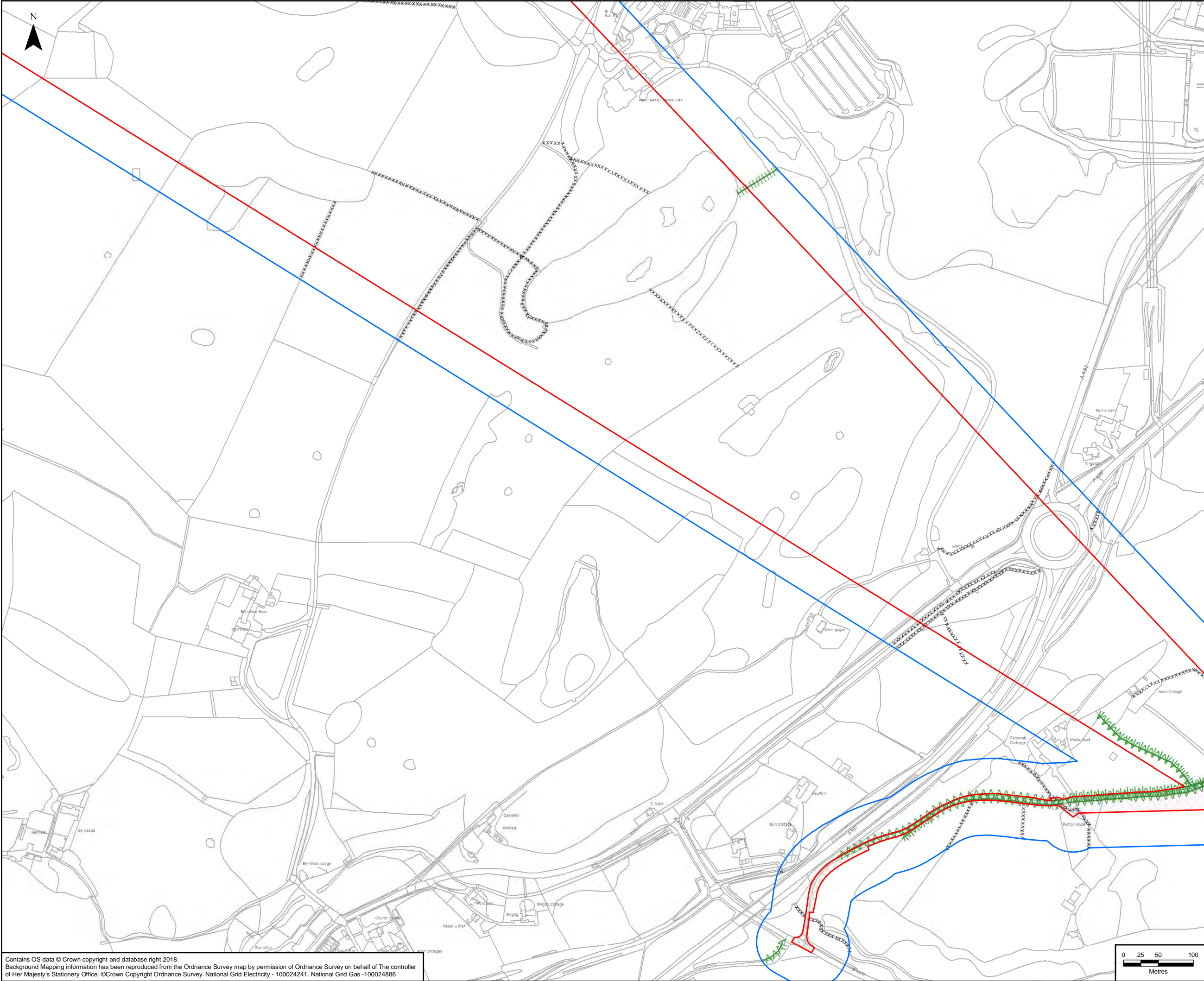
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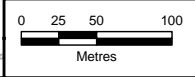




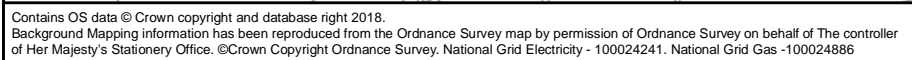
LEGEND	
	ORDER LIMITS
	50M BUFFER OF ORDER LIMITS
	SECTION CUTLINES
	CONDUCTOR PULLING POSITION
	PYLON WORKING AREA
	SCAFFOLD WORKING AREA
	AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
	BRIDGE WORKING AREA
	ACCESS - NATIONAL GRID
	ACCESS - THIRD PARTY
	ACCESS - NATIONAL GRID AND THIRD
	HIGHWAY WORKS
	DRAINAGE MITIGATION AREA
	CONSTRUCTION COMPOUND
	AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED
BOUNDARY FEATURES	
	HISTORICALLY IMPORTANT BOUNDARY
	CONFIRMED CLODDIAU
	POTENTIAL CLODDIAU
PHASE 1 HABITAT SURVEY HEDGES	
	J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
	J2.1.2 - INTACT HEDGE - SPECIES-POOR
	J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
	J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
	J2.3.1 - HEDGE WITH TREES - NATIVE SPECIES-RICH
	J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
	OTHER PHASE 1 BOUNDARY FEATURE WHICH IS NOT A HEDGE
HEDGEROW SURVEY RESULTS	
	ECOLOGICALLY IMPORTANT HEDGEROW
	ECOLOGICALLY UNIMPORTANT HEDGEROW
	BOUNDARY SURVEYED - NOT A HEDGE

NOTES					
PLEASE NOTE THAT THERE ARE APPROXIMATELY 20 HEDGEROWS WITHIN THE SURVEY AREA THAT HAVE NOT BEEN SURVEYED DUE TO ACCESS RESTRICTIONS OR HEALTH AND SAFETY ISSUES. THESE REPRESENT ONLY A SMALL PROPORTION OF THE HEDGEROWS PRESENT WITHIN THE SURVEY AREA AND A GOOD REPRESENTATION OF THE TYPES OF HEDGEROW PRESENT HAS BEEN OBTAINED.					
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Rev	Date	Description	GIS	Chk	App
Scheme: NORTH WALES CONNECTION PROJECT					
Document Number: 5.9.2.5					
Document Title: FIGURE 1 HEDGEROW SURVEY RESULTS SECTION F					
Creator: AB	Date: 31/07/2018	Checker: LS	Date: 31/07/2018	Approver: NL	Date: 31/07/2018
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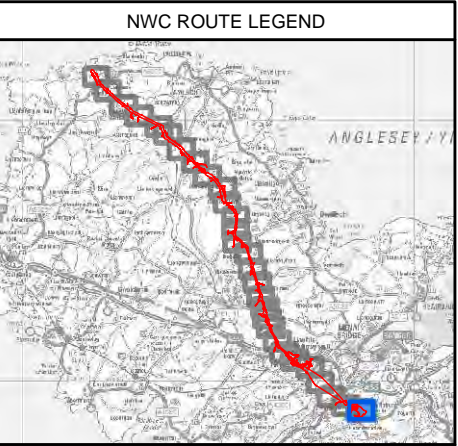
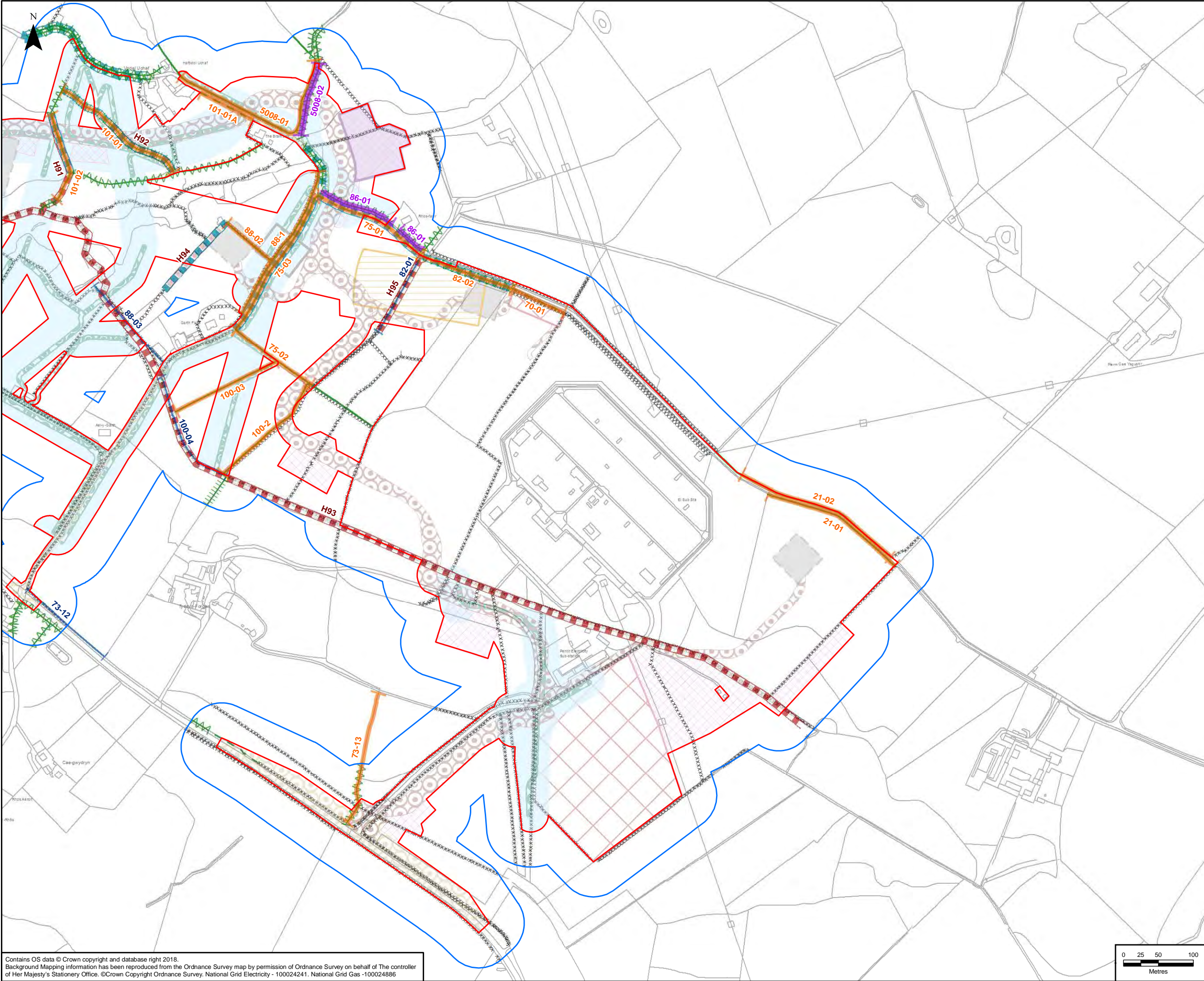
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**LEGEND**

- ORDER LIMITS
- 50M BUFFER OF ORDER LIMITS
- SECTION CUTLINES
- CONDUCTOR PULLING POSITION
- PYLON WORKING AREA
- SCAFFOLD WORKING AREA
- AREA WITHIN WHICH MODIFIED THIRD PARTY ASSET IS TO BE LOCATED
- BRIDGE WORKING AREA
- ACCESS - NATIONAL GRID
- ACCESS - THIRD PARTY
- ACCESS - NATIONAL GRID AND THIRD
- HIGHWAY WORKS
- DRAINAGE MITIGATION AREA
- CONSTRUCTION COMPOUND
- AREA WITHIN WHICH TUNNEL HEAD HOUSE AND CABLE SEALING END COMPOUND WILL BE LOCATED

**BOUNDARY FEATURES**

- HISTORICALLY IMPORTANT BOUNDARY
- CONFIRMED CLODDIAU
- POTENTIAL CLODDIAU

**PHASE 1 HABITAT SURVEY HEDGES**

- J2.1.1 - INTACT HEDGE - NATIVE SPECIES-RICH
- J2.1.2 - INTACT HEDGE - SPECIES-POOR
- J2.2.1 - DEFUNCT HEDGE - NATIVE SPECIES-RICH
- J2.2.2 - DEFUNCT HEDGE - SPECIES-POOR
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- J2.3.2 - HEDGE WITH TREES - SPECIES-POOR
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**HEDGEROW SURVEY RESULTS**

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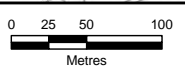
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Document Number: 5.9.2.5

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HEDGEROW SURVEY RESULTS  
SECTION F

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## Appendix A: List of Woody Species (The Hedgerow Regulations 1997)

Common Name	Botanical Name
Alder	<i>Alnus glutinosa</i>
Apple, crab	<i>Malus sylvestris</i>
Ash	<i>Fraxinus excelsior</i>
Aspen	<i>Populus tremula</i>
Beech	<i>Fagus sylvatica</i>
Birch, downy	<i>Betula pubescens</i>
Birch, silver	<i>Betula pendula</i>
Black poplar	<i>Populus nigra ssp. betulifolia</i>
Blackthorn	<i>Prunus spinosa</i>
Box, common	<i>Buxus sempervirens</i>
Broom	<i>Cytisus scoparius</i>
Buckthorn	<i>Rhamnus cathartica</i>
Bird cherry	<i>Prunus padus</i>
Buckthorn, alder	<i>Frangula alnus</i>
Butcher's broom	<i>Ruscus aculeatus</i>
Cherry, bird	<i>Prunus padus</i>
Cherry, wild	<i>Prunus avium</i>
Cotoneaster, wild	<i>Cotoneaster integerrimus (Wales)</i>
Currant, downy	<i>Ribes spicatum</i>
Currant, mountain	<i>Ribes alpinum</i>
Dogwood	<i>Cornus sanguinea ssp. sanguinea</i>
Elder	<i>Sambucus nigra</i>



Common Name	Botanical Name
Elm species	<i>Ulmus spp.</i>
Gooseberry	<i>Ribes uva-crispa</i>
Gorse, common	<i>Ulex europaeus</i>
Gorse, dwarf	<i>Ulex minor</i>
Gorse, western	<i>Ulex gallii</i>
Gelder rose	<i>Viburnum opulus</i>
Hawthorn, common	<i>Crataegus monogyna</i>
Hawthorn, Midland	<i>Crataegus laevigata</i>
Hazel, common	<i>Corylus avellana</i>
Holly	<i>Ilex aquifolium</i>
Hornbeam, common	<i>Carpinus betulus</i>
Juniper, common	<i>Juniperus communis</i>
Lime, large-leaved	<i>Tilia platyphyllos</i>
Lime, small-leaved	<i>Tilia cordata</i>
Maple, field	<i>Acer campestre</i>
Mezereum	<i>Daphne mezereum</i>
Oak, English	<i>Quercus robur</i>
Oak, sessile	<i>Quercus petraea</i>
Osier	<i>Salix viminalis</i>
Pear, Plymouth	<i>Pyrus cordata</i>
Pear, wild	<i>Pyrus pyraster</i>
Poplar, grey	<i>Populus x canescens</i>
Poplar, white	<i>Populus alba</i>
Privet, wild	<i>Ligustrum vulgare</i>
Rose species	<i>Rosa spp.</i>
Rowan	<i>Sorbus aucuparia</i>
Sea buckthorn	<i>Hippophae rhamnoides</i>
Wild service tree	<i>Sorbus torminalis</i>
Spindle, common	<i>Euonymus europaeus</i>
Spurge laurel	<i>Daphne laureola</i>
Walnut	<i>Juglans regia</i>
Wayfaring tree	<i>Viburnum lantana</i>



Common Name	Botanical Name
Whitebeam	<i>Sorbus species</i>
Willow species	<i>Salix spp.</i>
Yew	<i>Taxus baccata</i>



## Appendix B: Historical Boundary Desk Study Results

Historical Hedgerow Desk Study Results					
Historic Boundary ID	Type of Historic Boundary	Total Boundary Length	Ecology Hedge ID	Ecologically Important	Figure 1 /Sheet Number
H01	Parish Boundary	544	2094-01, 2125-09, 2094-05		1
H02	Tithe Map	240	2094-04		2
H03	Tithe Map	232	2094-03		2
H04	Tithe Map	284	12001-02		2
H05	Tithe Map	103	2087-03		2
H06	Tithe Map	230	2052-01		2
H07	Tithe Map	441	2055-03b, 2055-05		2
H08	Parish Boundary	273	2039-05, 2039-06		3
H09	Tithe Map	172	2039-04		3
H10	Parish Boundary	722	62249-09, 62249-12, 62249-09		3
H11	Tithe Map	137	62249-13		3
H12	Tithe Map	279	62249-11		3
H13	Tithe Map	340	2000-05		4
H14	Parish Boundary	400	2000-04		4
H15	Parish Boundary	421	1971-05		5
H16	Parish Boundary	385	1957-03		5



Historical Hedgerow Desk Study Results					
Historic Boundary ID	Type of Historic Boundary	Total Boundary Length	Ecology Hedge ID	Ecologically Important	Figure 1 /Sheet Number
H17	Tithe Map	283	1957-02		5
H18	Tithe Map	681	1930-01, 1941-04		6
H19	Tithe Map	201	1915-01		6
H20	Tithe Map	317	4055-02, 4055-03		7
H21	Tithe Map	236	4070-05		7
H22	Tithe Map	228	4071-01		7
H23	Tithe Map	297	4070-06		7
H24	Tithe Map	244	1832-02		7
H25	Tithe Map	247	1832-03		7
H26	Tithe Map	256	1810-09		8
H27	Tithe Map	392	1810-01, 1810-04, 1810-10		8
H28	Tithe Map	230	N/A		8
H29	Parish Boundary	422	1824-02, 4010-02		8
H30	Tithe Map	474	4034-01, 1770-04	Yes	8
H31	Tithe Map	286	1724-01		9
H32	Tithe Map	601	1725-05, 1725-07	Yes	9
H33	Tithe Map	137	1736-03 1736-03A	Yes	10
H34	Tithe Map	422	1736-04		10
H35	Tithe Map	314	1736-05, 1736-05A		10
H36	Tithe Map	316	1702-07,		11



Historical Hedgerow Desk Study Results					
Historic Boundary ID	Type of Historic Boundary	Total Boundary Length	Ecology Hedge ID	Ecologically Important	Figure 1 /Sheet Number
			1702-08		
H37	Parish Boundary	588	1702-09, 1702-10		11
H38	Parish Boundary	388	1617-03, 5030-03,		11
H39	Tithe Map	106	1568-04	Yes	11
H40	Tithe Map	366	1564-10, 4024-05	Yes	11
H41 <sup>2</sup>	Tithe Map	56	N/A		12
H42	Tithe Map	254	1564-12, 1568-01		12
H43	Parish Boundary	771	N/A		12
H44	Tithe Map	345	4024-01	Yes	12
H45	Tithe Map	149	N/A		12
H46	Tithe Map	149	1549-01	Yes	13
H47	Tithe Map	140	1547-01		13
H48	Tithe Map	428	5000-02	Yes	13
H49	Tithe Map	201	5000-01		13
H50	Parish Boundary	882	4074-02, 4074-22, 4074-25	Yes Yes	13
H51	Tithe Map	355	4074-26		14
H52 <sup>3</sup>	Tithe Map	169	4074-08		14

<sup>2</sup> H41 is outside the Order Limits and has not been included in the historical boundary length totals.

<sup>3</sup> H52 is outside the Order Limits and has not been included in the historical boundary length totals



Historical Hedgerow Desk Study Results					
Historic Boundary ID	Type of Historic Boundary	Total Boundary Length	Ecology Hedge ID	Ecologically Important	Figure 1 /Sheet Number
H53	Tithe Map	317	4074-18		14
H54	Tithe Map	271	1499-04, 1513-02		15
H55	Tithe Map	131	1513-05		15
H56	Parish Boundary	445	5057-02	Yes	16
H57	Parish Boundary	312	N/A		16
H58	Tithe Map	103	N/A		16
H59	Tithe Map	107	1505-03		16
H60	Tithe Map	246	1505-03		16
H61	Tithe Map	272	1505-04	Yes	16
H62	Tithe Map	40	N/A		16
H63	Tithe Map	308	1505-05		17
H64	Tithe Map	226	5077-04, 5077-05		17
H65	Tithe Map	234	5006-01, 5006-03		17
H66	Tithe Map	81	5006-01, 5006-03, 1454-01	Yes	17
H67	Tithe Map	102	N/A		17
H68	Tithe Map	244	1479-A		18
H69	Tithe Map	287	5035-01 5035-A 5035-B	Yes	18
H70	Parish Boundary	279	5032-03	Yes	18
H71	Tithe Map	94	5036-06	Yes	18



Historical Hedgerow Desk Study Results					
Historic Boundary ID	Type of Historic Boundary	Total Boundary Length	Ecology Hedge ID	Ecologically Important	Figure 1 /Sheet Number
H72	Tithe Map	154	5081-02		18
H73	Parish Boundary	926	1341-02, 1341-04, 1341-05, 1341-06	Yes Yes Yes	19
H74	Tithe Map	222	1341-03		19
H75	Tithe Map	253	1414-A		19
H76	Tithe Map	502	1332-08		19
H77	Tithe Map	196	1351-04		20
H78	Parish Boundary	246	N/A		20
H79	Tithe Map	141	5079-01	Yes	20
H80	Tithe Map	371	5013-02		21
H81	Tithe Map	164	2244-01	Yes	22
H82	Tithe Map	329	12009-02, 12009-02A	Yes	22
H83	Tithe Map	216	12033-04		22
H84	Tithe Map	256	12016-03		22
H85	Parish Boundary	249	1040-01	Yes	24
H86	Parish Boundary	390	896-06 896-07	Yes Yes	24
H87	Tithe Map	214	668-06	Yes	25
H88	Tithe Map	290	668-05		25
H89	Tithe Map	319	6021-10, 6021-11		28
H90	Tithe Map	103	6021-02		28
H91	Tithe Map	159	101-02		28



Historical Hedgerow Desk Study Results					
Historic Boundary ID	Type of Historic Boundary	Total Boundary Length	Ecology Hedge ID	Ecologically Important	Figure 1 /Sheet Number
H92	Tithe Map	119	101-01		28
H93	Not Recorded	1548	N/A		28/29
H94	Tithe Map	117	N/A		28
H95	Tithe Map	126	N/A		29

## Appendix C: Hedgerow Survey Results (Ecologically Important and Species-Rich Hedgerows)



Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
12001-01	2	A	02 September 2016	4	100	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	3	Important - Ecological	4 woody species and 3 associated features; plus the hedgerow runs along a PRow
2012-01	3	A	05 April 2018	5	80	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	6	Important - Ecological	5 woody species and 6 associated features
2012-02	3	A	13 March 2018	4	30	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	4 woody species and 4 associated features; plus the hedgerow runs along a PRow
2039-01	3	A	21 September 2016	6	350	<i>Crataegus monogyna</i> , <i>Malus sylvestris</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	5	Important - Ecological	6 woody species and 5 associated features
2039-05	3	A	13 March 2018	6	150	<i>Alnus glutinosa</i> (S1), <i>Crataegus monogyna</i> (S1, S2), <i>Fraxinus excelsior</i> (S2), <i>Ilex aquifolium</i> (S2), <i>Populus tremula</i> (S1, S2), <i>Prunus avium</i> (S1, S2), <i>Rosa spp.</i> (S2), <i>Salix spp.</i> (S2), <i>Ulex europaeus</i> (S1, S2)	4	Important - Ecological	6 woody species and 4 associated features
2039-08	3	A	13 March 2018	5	210	<i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S3), <i>Prunus spinosa</i> (S1, S3), <i>Rosa spp.</i> (S1, S2, S3), <i>Sambucus nigra</i> (S1, S2, S3), <i>Ulex europaeus</i> (S1, S2, S3)	3	Species-Rich	5 woody species and 3 associated features
1738-01	9	B	18 July 2017	6	80	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	4	Important - Ecological	6 woody species and 4 associated features
1738-02	9	B	18 July 2017	5	90	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	4	Important - Ecological	5 woody species and 4 associated features
1738-03	9	B	18 July 2017	6	50	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	3	Important - Ecological	6 woody species and 3 associated features
1761-01	9	B	25 October 2016	7	30	<i>Alnus glutinosa</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	3	Important - Ecological	7 woody species and 3 associated features

Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
1761-02	9	B	25 October 2016	5	50	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ulex europaeus</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i>	6	Important - Ecological	5 woody species and 6 associated features
1770-02	8	B	12 July 2017	7	150	<i>Acer pseudoplatanus</i> (S1, S2), <i>Acer platanoides</i> (S1), <i>Crataegus monogyna</i> (S1, S2), <i>Fraxinus excelsior</i> (S1), <i>Prunus spinosa</i> (S1, S2), <i>Rosa spp.</i> (S1, S2), <i>Salix spp.</i> (S1, S2), <i>Ulex europaeus</i> (S1)	3	Important - Ecological	7 woody species and 3 associated features
1770-03	8	B	12 July 2017	6	200	<i>Crataegus monogyna</i> , <i>Cytisus scoparius</i> , <i>Fagus sylvatica</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	6 woody species and 4 associated features
1778-01	9	B	12 July 2017	7	120	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Euonymus europaeus</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	4	Important - Ecological	7 woody species and 4 associated features
1778-02	9	B	12 July 2017	7	120	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Euonymus europaeus</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Ulmus spp.</i>	3	Important - Ecological	7 woody species and 3 associated features
1778-04	9	B	09 May 2018	5	120	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	6	Important - Ecological	5 woody species and 6 associated features
1778-05	9	B	13 March 2018	5	140	<i>Crataegus monogyna</i> (S1, S2), <i>Fraxinus excelsior</i> (S1, S2), <i>Prunus avium</i> (S1), <i>Prunus spinosa</i> (S1), <i>Rosa spp.</i> (S1), <i>Salix spp.</i> (S2), <i>Sambucus nigra</i> (S1)	5	Important - Ecological	5 woody species and 5 associated features
1810-02	8	B	11 July 2017	6	150	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Euonymus europaeus</i> , <i>Fraxinus excelsior</i> , <i>Prunus sp.</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i>	4	Important - Ecological	6 woody species and 4 associated features; plus the hedgerow runs along a PRow
1810-12	8	B	10 May 2018	5	140	<i>Acer campestre</i> (S1, S2, S3), <i>Crataegus monogyna</i> (S1, S2, S3), <i>Fagus sylvatica</i> (S2), <i>Fraxinus excelsior</i> (S1, S2, S3), <i>Rosa spp.</i> (S1), <i>Quercus robur</i> (S2), <i>Salix spp.</i> (S3)	2	Species-Rich	5 woody species and 2 associated features
4034-01	8	B	25 October 2016	7	80	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	4	Important - Ecological	7 woody species and 4 associated features
4034-04	8	B	13 March 2018	7	100	<i>Crataegus monogyna</i> , <i>Cytisus scoparius</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	7 woody species and 4 associated features



Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
1505-03	16	C	20 July 2017 and 14 March 2018	5	200	<i>Crataegus monogyna</i> (S1, S2), <i>Fraxinus excelsior</i> (S1, S2), <i>Ilex aquifolium</i> (S1), <i>Prunus spinosa</i> (S1), <i>Quercus robur</i> (S1), <i>Rosa spp.</i> (S1), <i>Ulex europaeus</i> (S1)	4	Important - Ecological	5 woody species and 4 associated features
1505-04	16	C	21 July 2017	5	120	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	5	Important - Ecological	5 woody species and 5 associated features
1505-06	16	C	15 March 2018	5	170	<i>Crataegus monogyna</i> (S1, S2), <i>Prunus spinosa</i> (S1, S2), <i>Rosa spp.</i> (S2), <i>Sambucus nigra</i> (S1, S2), <i>Ulmus spp.</i> (S1), <i>Ulex europaeus</i> (S2)	2	Species-Rich	5 woody species and 2 associated features
1512-03	14	C	13 September 2016	5	80	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	5	Important - Ecological	5 woody species and 5 associated features
1513-01	14	C	02 November 2016	5	90	<i>Crataegus monogyna</i> , <i>Cytisus scoparius</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i>	4	Important - Ecological	5 woody species and 4 associated features. This hedge is partially defunct at the western end.
1544-02	12	C	15 March 2018	5	300	<i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S1, S3), <i>Prunus avium</i> (S1, S2), <i>Prunus spinosa</i> (S3), <i>Rosa spp.</i> (S3), <i>Salix spp.</i> (S1, S2), <i>Sorbus spp.</i> (S2), <i>Ulex europaeus</i> (S1, S2)	4	Important - Ecological	5 woody species and 4 associated features
1549-01	12	C	26 October 2016	5	50	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	3	Important - Ecological	5 woody species and 3 associated features
1549-02	12	C	14 March 2018	6	90	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Prunus padus</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	3	Species-Rich	6 woody species and 3 associated features. Not ecologically Important as it is less than 30 years old.
1564-10	12	C	27 October 2016	6	30	<i>Crataegus monogyna</i> , <i>Cytisus scoparius</i> , <i>Prunus spinosa</i> , <i>Rosa sp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	3	Important - Ecological	6 woody species and 3 associated species
1564-11	12	C	27 October 2016	6	70	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i> , <i>Rosa spp.</i>	3	Important - Ecological	6 woody species and 3 associated features

Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
1564-12	12	C	27 October 2016 and 12 March 2018	5	55	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	4	Important - Ecological	5 woody species and 4 associated features
1568-04	12	C	20 July 2017	5	140	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	5 woody species and 4 associated features
1725-04	10	C	25 July 2017	7	170	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	5	Important - Ecological	7 woody species and 5 associated features
1725-05	10	C	25 July 2017	7	170	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	3	Important - Ecological	7 woody species and 3 associated features.
1725-06	10	C	25 July 2017	8	130	<i>Acer pseudoplatanus</i> , <i>Alnus glutinosa</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	2	Important - Ecological	8 woody species and 2 associated features
1725-07	10	C	25 May 2017	5	Not recorded	<i>Species not recorded</i>	1	Species-Rich	5 woody species and 1 associated feature
1725-08	10	C	25 May 2017	5	Not recorded	<i>Species not recorded</i>	1	Species-Rich	5 woody species and 1 associated feature
1736-03A	10	C	02 August 2017	5	100	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Ulex europaeus</i> , <i>Rosa spp.</i>	5	Important - Ecological	5 woody species and 5 associated features
4024-01	12	C	27 October 2016	5	70	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	4	Important - Ecological	5 woody species and 4 associated features
4024-03	12	C	27 October 2016	5	90	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	3	Species-Rich	5 woody species and 3 associated features
4069-01	16	C	30 June 2017	5	Not recorded	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i>	1	Species-Rich	5 woody species and 1 associated feature
4074-01	13	C	13 October 2016	5	100	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	5 woody species and 4 associated features



Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
4074-23	13	C	02 August 2017	5	220	<i>Acer pseudoplatanus</i> (S1, S2, S3), <i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S2, S3), <i>Prunus spinosa</i> (S1, S2, S3), <i>Sambucus nigra</i> (S1, S3), <i>Ulmus sp.</i> (S1, S2)	4	Important - Ecological	5 woody species and 4 associated species
4074-25	13	C	20 July 2017	6	150	<i>Alnus glutinosa</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	6 woody species and 4 associated features
5000-02	13	C	27 October 2016	5	90	<i>Crataegus monogyna</i> , <i>Cytisus scoparius</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	5	Important - Ecological	5 woody species and 5 associated features
5052-01	16	C	30 June 2017 and 14 March 2018	5	30	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	4	Important - Ecological	5 woody species and 4 associated features
5052-02	16	C	30 June 2017	5	Not recorded	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	1	Species-Rich	5 woody species and 1 associated feature
5052-03	16	C	30 June 2017 and 14 March 2018	5	30	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i>	4	Important - Ecological	5 woody species and 4 associated features
5053-03	16	C	14 March 2018	5	100	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	2	Species-Rich	5 woody species and 2 associated features
5057-02	16	C	20 July 2017	5	200	<i>Crataegus monogyna</i> (S1, S2), <i>Fraxinus excelsior</i> (S1, S2), <i>Prunus spinosa</i> (S1, S2), <i>Salix spp.</i> (S1, S2), <i>Sambucus nigra</i> (S1, S2), <i>Ulex europaeus</i> (S2).	4	Important - Ecological	5 woody species and 4 associated species
5057-05	16	C	05 October 2016	5	200	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	5	Important - Ecological	5 woody species and 5 associated species
1332-01	20	D	04 August 2016	6	100	<i>Crataegus monogyna</i> , <i>Fagus sylvatica</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	3	Important - Ecological	6 woody species and 3 associated features
1332-03	20	D	05 August 2016	5	30	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	5	Important - Ecological	5 woody species and 5 associated features
1332-04	20	D	05 August 2016	6	100	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	5	Important - Ecological	6 woody species and 5 associated features

Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
1332-05	20	D	05 August 2016	6	95	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	3	Important - Ecological	6 woody species and 3 associated features
1332-06	20	D	05 August 2016	5	80	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	4	Important - Ecological	5 woody species and 4 associated features
1332-A	20	D	05 August 2016 and 30 March 2018	5	90	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	3	Species-Rich	5 woody species and 3 associated features
1341-04	19	D	05 August 2016	7	95	<i>Alnus glutinosa</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	5	Important - Ecological	7 woody species and 5 associated features
1341-05	19	D	05 August 2016	5	95	<i>Alnus glutinosa</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i>	5	Important - Ecological	5 woody species and 5 associated features
1341-06	19	D	05 August 2016	5	25	<i>Alnus glutinosa</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i>	5	Important - Ecological	5 woody species and 5 associated features
1351-01	20	D	11 October 2016	6	60	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fagus sylvatica</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Ulex europaeus</i>	3	Important - Ecological	6 woody species and 3 associated features
1351-05	20	D	29 June 2017 and 09 April 2018	6	50	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	3	Important - Ecological	6 woody species and 3 associated features
1414-01	20	D	03 August 2016	5	250	<i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S1, S2, S3), <i>Prunus spinosa</i> (S1, S2, S3), <i>Rosa spp.</i> (S1, S2, S3), <i>Sambucus nigra</i> (S1, S2)	4	Important - Ecological	5 woody species and 4 associated features
1414-B	20	D	04 August 2016 and 09 April 2018	5	100	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	3	Species-Rich	5 woody species and 3 associated features
1448-01	17	D	05 June 2018	5	90	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	3	Species-Rich	5 woody species and 3 associated features
1451-01	17	D	28 July 2016	5	300	<i>Carpinus betulus</i> (S1), <i>Corylus avellana</i> (S1), <i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S1, S3), <i>Prunus spinosa</i> (S1, S2, S3), <i>Sambucus nigra</i> (S1, S2, S3), <i>Ulex europaeus</i> (S2, S3)	4	Important - Ecological	5 woody species and 4 associated features



Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
1454-01	17	D	27 July 2016	5	300	<i>Carpinus betulus</i> (S1), <i>Corylus avellana</i> (S1), <i>Crataegus monogyna</i> (S1,S2,S3), <i>Fraxinus excelsior</i> (S1, S3), <i>Prunus spinosa</i> (S1,S2,S3), <i>Sambucus nigra</i> (S1, S2, S3), <i>Ulex europaeus</i> (S2, S3)	4	Important - Ecological	5 woody species and 4 associated features
1454-03	17	D	29 June 2017	5	Not recorded	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	2	Species-Rich	5 woody species and 2 associated features
1467-01	17	D	27 July 2016	5	100	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	3	Species-Rich	5 woody species and 3 associated features
1476-01	17	D	30 June 2017	5	100	<i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S1), <i>Prunus spinosa</i> (S1, S2, S3), <i>Rosa spp.</i> (S1, S2), <i>Sambucus nigra</i> (S1), <i>Ulex europaeus</i> (S2, S3)	4	Important - Ecological	5 woody species and 4 associated features.
5006-02	17	D	28 July 2016	5	350	<i>Corylus avellana</i> (S1, S2), <i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S1), <i>Prunus spinosa</i> (S1, S2, S3), <i>Rosa spp.</i> (S2, S3), <i>Sambucus nigra</i> (S1, S2, S3)	5	Important - Ecological	5 woody species and 5 associated features
5032-01	18	D	02 August 2016	6	100	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	4	Important - Ecological	6 woody species and 4 associated features
5032-03	18	D	02 August 2016	6	200	<i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	4	Important - Ecological	6 woody species and 4 associated features
5035-01	18	D	04 August 2016	6	100	<i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	3	Important - Ecological	6 woody species and 3 associated features
5035-A	18	D	04 August 2016	5	150	<i>Crataegus monogyna</i> , (S1, S2) <i>Fraxinus excelsior</i> (S1, S2), <i>Prunus spinosa</i> (S2), <i>Rosa spp.</i> (S1, S2), <i>Sambucus nigra</i> (S1, S2)	3	Species-Rich	5 woody species and 3 associated features
5036-01	18	D	02 August 2016	8	100	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Quercus petraea</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulmus spp.</i>	5	Important - Ecological	8 woody species and 5 associated features
5036-03	18	D	02 August 2016	5	75	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	5	Important - Ecological	5 woody species and 5 associated features

Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
5036-04	18	D	02 August 2016	5	100	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i>	6	Important - Ecological	5 woody species and 6 associated features
5036-05	18	D	02 August 2016	6	180	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	4	Important - Ecological	6 woody species and 4 associated features
5036-06	18	D	02 August 2016	6	100	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Malus sylvestris</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	4	Important - Ecological	6 woody species and 4 qualifying features
5063-04	18	D	29 June 2017	6	150	<i>Corylus avellana</i> (S1,S2, S3), <i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S1), <i>Prunus spinosa</i> (S1, S2, S3), <i>Rosa Sp.</i> (S1, S2, S3) <i>Sambucus nigra</i> (S1, S2 ,S3)	3	Important - Ecological	6 woody species and 3 associated features
1000-01	24	E	21 June 2017	5	Not recorded	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i> ,	3	Species-Rich	5 woody species and 3 associated features
1000-02	24	E	21 June 2017	5	Not recorded	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	3	Species-Rich	5 woody species and 3 associated features
1025-01	24	E	13 July 2016	6	>200	<i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus petraea</i> , <i>Rosa spp.</i> , <i>Salix spp.</i>	3	Important - Ecological	6 woody species and 3 associated features. Extends beyond survey area.
1025-02	24	E	13 July 2016	6	100	<i>Betula pendula</i> , <i>Crataegus monogyna</i> , <i>Quercus petraea</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	6 woody species and 4 associated features
1025-04	24	E	13 July 2016	5	70	<i>Crataegus monogyna</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	5 woody species and 4 associated features
1040-01	24	E	21 June 2017	8	Not recorded	<i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus robur</i> , <i>Rosa spp.</i> , <i>Sorbus spp.</i> , <i>Salix caprea</i> , <i>Ulex europaeus</i>	4	Important - Ecological	8 woody species and 4 associated features
1040-02	24	E	21 June 2017	6	Not recorded	<i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus robur</i> , <i>Rosa spp.</i> , <i>Sorbus spp.</i>	3	Important - Ecological	6 woody species and 3 associated features
1040-03	24	E	21 June 2017 and 21 March 2018	6	200	<i>Alnus glutinosa</i> (S2) <i>Fraxinus excelsior</i> (S2) <i>Ilex aquifolium</i> (S2) <i>Prunus spinosa</i> (S1, S2) <i>Quercus robur</i> (S2) <i>Rosa spp.</i> (S1, S2) <i>Salix spp.</i> (S1, S2) <i>Sorbus aucuparia</i> (S2) <i>Ulex gallii</i> (S1)	5	Important - Ecological	6 woody species and 5 associated features



Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
1040-04	24	E	21 June 2017 and 21 March 2018	5	300	<i>Crataegus monogyna</i> (S1) <i>Cytisus scoparius</i> (S2) <i>Fraxinus excelsior</i> (S1) <i>Ilex aquifolium</i> (S2, S3) <i>Prunus spinosa</i> (S1, S2) <i>Quercus robur</i> (S2, S3) <i>Rosa spp.</i> (S1, S2) <i>Salix spp.</i> (S2, S3) <i>Sorbus aucuparia</i> (S3) <i>Ulex gallii</i> (S1, S2, S3)	6	Important - Ecological	5 woody species and 6 associated features
1040-07	24	E	21 March 2018	6	150	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus robur</i> , <i>Sambucus nigra</i>	4	Important - Ecological	6 woody species and 4 associated features
12003-02	23	E	27 June 2017	7	200	<i>Acer pseudoplatanus</i> (S1, S3), <i>Alnus glutinosa</i> (S1, S2, S3), <i>Corylus avellana</i> (S1, S2, S3), <i>Crataegus monogyna</i> (S1), <i>Fraxinus excelsior</i> (S3), <i>Prunus spinosa</i> (S1, S2, S3), <i>Quercus robur</i> (S3), <i>Rosa spp.</i> (S3), <i>Salix spp.</i> (S3), <i>Sambucus nigra</i> (S1), <i>Ulmus spp.</i> (S1, S2, S3)	3	Important - Ecological	9 woody species and 3 associated features
12003-03	23	E	27 June 2017	6	250	<i>Alnus glutinosa</i> (S2), <i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S1), <i>Prunus spinosa</i> (S1, S2, S3), <i>Quercus robur</i> (S1, S2, S3), <i>Rosa spp.</i> (S1, S2, S3), <i>Ulmus spp.</i> (S1, S2, S3)	4	Important - Ecological	6 woody species and 4 associated features
12009-02	22	E	02 August 2017	6	100	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	4	Important - Ecological	6 woody species and 4 associated features
12016-04	22	E	27 June 2017	8	100	<i>Acer campestre</i> (S1), <i>Carpinus betulus</i> (S2), <i>Corylus avellana</i> (S1), <i>Crataegus monogyna</i> (S1), <i>Fraxinus excelsior</i> (S1), <i>Ilex aquifolium</i> (S1), <i>Prunus spinosa</i> (S1, S2), <i>Quercus robur</i> (S2), <i>Rosa spp.</i> (S2), <i>Sambucus nigra</i> (S1, S2), <i>Ulex europaeus</i> (S2), <i>Acer pseudoplatanus</i> (S1, S2)	4	Important - Ecological	8 woody species and 4 associated features
12019-04	21	E	27 June 2017	6	250	<i>Crataegus monogyna</i> (S1, S2, S3), <i>Fraxinus excelsior</i> (S2), <i>Prunus spinosa</i> (S1, S2, S3), <i>Rosa spp.</i> (S1, S3), <i>Salix spp.</i> (S1, S2, S3), <i>Sambucus nigra</i> (S1, S3), <i>Ulex europaeus</i> (S1, S2, S3)	3	Important - Ecological	6 woody species and 3 associated features
1329-A	21	E	12 July 2016	5	30	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Ulmus glabra</i>	4	Important - Ecological	6 woody species and 4 associated features
1329-B	21	E	12 July 2016	5	30	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Ulmus glabra</i>	4	Important - Ecological	6 woody species and 4 associated features

Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
1375-01	21	E	03 November 2016	5	305	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i>	4	Important - Ecological	5 woody species and 4 associated features
1375-02	21	E	04 November 2016	6	150	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	5	Important - Ecological	6 woody species and 5 associated features
2244-01	22	E	02 August 2017	6	150	<i>Crataegus monogyna</i> (S1, S2, S3), <i>Ilex aquifolium</i> (S1, S2, S3), <i>Prunus spinosa</i> (S1, S2, S3), <i>Ulex europaeus</i> (S1, S2, S3), <i>Salix spp.</i> (S1, S2, S3), <i>Acer pseudoplatanus</i> (S1, S2, S3)	5	Important - Ecological	6 woody species and 5 associated features
5013-01	21	E	29 June 2017	7	200	<i>Alnus glutinosa</i> (S1, S2, S3), <i>Corylus avellana</i> (S1,S2,S3), <i>Crataegus monogyna</i> (S1,S2), <i>Fraxinus excelsior</i> (S1,S2), <i>Ilex aquifolium</i> (S1,S3), <i>Prunus spinosa</i> (S1,S2,S3), <i>Rosa spp.</i> (S1,S3), <i>Salix spp.</i> (S2)	3	Important - Ecological	7 woody species and 3 associated features
5075-01	22	E	02 August 2017 and 21 March 2018	5	150	<i>Crataegus monogyna</i> (S1, S2) <i>Fraxinus excelsior</i> (S2) <i>Prunus spinosa</i> (S1, S2) <i>Rosa spp.</i> (S1, S2) <i>Salix spp.</i> (S1, S2) <i>Ulex gallii</i> (S2)	4	Important - Ecological	5 woody species and 4 associated features
5079-01	20	E	03 November 2016	5	120	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Populus tremula</i> , <i>Prunus spinosa</i> , <i>Salix spp.</i>	4	Important - Ecological	5 woody species and 4 associated features. Himalayan balsam
6025-01	23	E	15 March 2018	5	30	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Quercus petraea</i> , <i>Ulex europaeus</i>	5	Important - Ecological	5 woody species and 5 associated features
896-06	24	E	17 July 2017	8	60	<i>Alnus glutinosa</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Sambucus nigra</i> , <i>Ulex europaeus</i>	5	Important - Ecological	8 woody species and 5 associated features
896-10	24	E	21 March 2018	5	150	<i>Crataegus monogyna</i> (S1, S2) <i>Fagus sylvatica</i> (S2) <i>ilex aquifolium</i> (S1) <i>Prunus spinosa</i> (S1, S2) <i>Quercus robur</i> (S2) <i>Rosa spp.</i> (S1) <i>Ulex gallii</i> (S1 S2)	2	Species-Rich	5 woody species and 2 associated features
970-03	24	E	13 July 2016	8	200	<i>Betula pubescens</i> , <i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus petraea</i> , <i>Rosa spp.</i> , <i>Salix spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	8 woody species and 4 associated features
970-2	24	E	20 June 2017	5	Not recorded	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus robur</i> , <i>Salix caprea</i>	3	Species-Rich	5 woody species and 3 associated features
5008-02	29	F	11 October 2016	7	50	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Rosa spp.</i> , <i>Prunus spinosa</i> , <i>Quercus robur</i> , <i>Ulex europaeus</i>	4	Important - Ecological	7 woody species and 4 associated features



Hedge_ID	Map Sheet (Figure 1)	Section	Survey Date	Average no. woody species / 30 m section	Total length of hedgerow (m)	Summary of species (S1, S2, S3 etc. to indicate which section(s) the species was found)	No. Associated Features	Classification	Notes
6024 - 1	25	F	22 June 2017	5	Not recorded	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	1	Species-Rich	5 woody species and 1 associated feature
655-1	25	F	22 June 2017	6	Not recorded	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Malus sylvestris</i> , <i>Prunus spinosa</i> , <i>Sambucus nigra</i>	2	Species-Rich	6 woody species and 2 associated features
668-06	25	F	17 July 2017	7	50	<i>Acer pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Quercus robur</i> , <i>Rosa Sp</i> , <i>Ulex europaeus</i>	3	Important - Ecological	7 woody species and 3 associated features
668-07	25	F	11 April 2018	5	210	<i>Corylus avellana</i> (S1), <i>Crataegus monogyna</i> (S1,S2,S3), <i>Fraxinus excelsior</i> (S2,S3), <i>Prunus spinosa</i> (S1,S2,S3), <i>Quercus petraea</i> (S1, S2), <i>Rosa spp.</i> (S1,S2), <i>Salix spp.</i> (S3), <i>Ulex europaeus</i> (S3)	5	Important - Ecological	5 woody species and 5 associated features
668-09	25	F	11 April 2018	7	60	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus petraea</i> , <i>Rosa spp.</i> , <i>Sambucus nigra</i>	4	Important - Ecological	7 woody species and 4 associated features
668-4	25	F	22 June 2017	5	Not recorded	<i>Acer pseudoplatanus</i> , <i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Rosa spp.</i>	3	Species-Rich	5 woody species and 3 associated features
86-01	29	F	11 October 2016	7	100	<i>Corylus avellana</i> , <i>Crataegus monogyna</i> , <i>Ilex aquifolium</i> , <i>Prunus spinosa</i> , <i>Quercus petraea</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	2	Important - Ecological	7 woody species and 2 associated species
896-07	24	F	17 July 2017	5	60	<i>Crataegus monogyna</i> , <i>Fraxinus excelsior</i> , <i>Prunus spinosa</i> , <i>Rosa spp.</i> , <i>Ulex europaeus</i>	4	Important - Ecological	5 woody species and 4 associated features