The Great Grid Upgrade

North Humber to High Marnham

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North Humber to High Marnham

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1. Introduction

1.1.1 This appendix to **Application Document 6.8 Chapter 8 Ecology** details the scope, methods and findings of great crested newt (GCN) (*Triturus cristatus*) surveys carried out to inform the Environmental Statement (ES) and any mitigation and licensing requirements for the Project in Nottinghamshire.

1.1.2 The Project has agreed with Natural England that a district level licence (DLL) can be issued to cover any potential impact on GCN and ensure legal compliance for the Project within the East Riding of Yorkshire and North Lincolnshire. The Project has started the DLL application process and is liaising closely with Natural England on this matter. As part of the application process all survey data have been, and will continue to be, shared with Natural England to allow Natural England to define appropriate mitigation measures such as the creation of new ponds and habitat improvements which will be implemented (by Natural England) through the DLL. Consequently, assessment of this species within the East Riding of Yorkshire and North Lincolnshire is not required to be included within the Environmental Statement (ES) as they would be fully mitigated for as part of the DLL and can therefore be scoped out of detailed assessment.

1.1.3 However, Natural England cannot offer DLL for any projects in Nottinghamshire. Therefore, in an approach agreed by Natural England, the Project will seek a European Protected Species Licence (EPSL) for Nottinghamshire only. As such **Application Document 6.8 Chapter 8 Ecology** contains an assessment of the potential effects of the Project on GCN in Nottinghamshire only, supported by the baseline data and information relating to GCN and waterbodies located in Nottinghamshire presented in this appendix.

1.1.4 This appendix provides baseline information obtained through desk-based assessments, consultation, and field surveys. The field surveys comprised habitat suitability index (HSI) assessments and environmental DNA (eDNA) surveys during the 2024, 2025 and 2026 survey seasons.

1.1.5 There are four annexes to this appendix:

- **Annex A Figures**;
- **Annex B Great crested newt records within the study area**;
- **Annex C Waterbodies scoped in or out for further assessment**;
- **Annex D Detailed results for the HSI assessment**; and
- **Annex E Photographs of waterbodies**.

1.1.6 This appendix is supported by the following figures in Annex A:

- **Figure A8.12.1 Great Crested Newt Desk Study Records (Nottinghamshire)**; and
- **Figure A8.12.2 Great Crested Newt Survey Results (Nottinghamshire)**

1.1.7 The following technical appendices and figures should be read in conjunction with this appendix to provide a more detailed assessment of the baseline in relation to GCN:

- **Application Document 6.2 Chapter 2 Legislation and Policy Context**;
- **Application Document 6.8 Chapter 8 Ecology**;
- **Application Document 6.8.A1 Appendix 8.1 Regional and Local Planning Policy**;
- **Application Document 6.8.A2 Appendix 8.2 Designated Sites Information**;
- **Application Document 6.8.A3 Appendix 8.3 Habitat Survey Report**;
- **Application Document 6.1.F1 Figure 1.1 Project Location and Route Sections**;
- **Application Document 7.3 Register of Environmental Actions and Commitments**; and
- **Application Document 7.8 Outline Landscape and Ecology Management Plan**.

1.1.8 The Project has been sub-divided into six geographical Route Sections for reader accessibility. These are shown on **Application Document 6.1.F1 Figure 1.1 Project Location and Route Sections** and comprise:

- Route Section A – between the proposed Birkhill Wood Substation and the River Ouse;
- Route Section B – between the River Ouse and Crowle;
- Route Section C – between Crowle and North Moor (M180);
- Route Section D – between North Moor (M180) and the River Idle;
- Route Section E – between the River Idle and Darlton; and
- Route Section F – between Darlton to the proposed High Marnham Substation.

1.1.9 This appendix is relevant to Route Sections D, E and F only which are the sections located in the county of Nottinghamshire. Note that only the very southern section of Route Section D is located in Nottinghamshire.

Defining the Study and Survey Areas

1.1.10 In this appendix, the following terminology is used to describe the geographic areas in which the GCN assessment work has been conducted:

- Study area: This area was subject to the collection of background information, such as desk-study records for GCN to supplement the survey work findings. The study area comprises the Order Limits within Nottinghamshire plus a 2 kilometre (km) buffer as shown on **Figure A8.12.1** in Annex A; and
- Survey area: This area is the focus of the GCN survey work within Nottinghamshire and is shown on **Figure A8.12.2** in Annex A. The survey area comprises waterbodies located in the Order Limits within Nottinghamshire plus a 250 m buffer.

1.1.11 It is recognised that GCN can disperse at greater distances from breeding ponds. However, a 250 m survey radius is widely accepted as an appropriate search area for breeding ponds, unless particularly favourable habitat is present and a development would have a substantial negative effect on that habitat. The land in the Order Limits is predominantly arable, which is a sub-optimal terrestrial habitat for amphibians. No waterbodies located in Nottinghamshire will be lost as a result of the Project and the majority of terrestrial habitat impacts will be temporary, additionally the Project will create new areas of terrestrial habitat suitable for GCN. Therefore, a 250 m survey radius for waterbodies is considered appropriate, rather than a 500 m survey radius.

1.2 Survey Aims and Objectives

1.2.1 The aim and objectives of the survey work and this appendix are presented below.

Aim

1.2.2 Aims of the desk-study and field surveys were to:

- Determine the presence or likely absence of GCN within the survey area; and
- Inform the ES for the Project and any subsequent mitigation or licensing that may be required to enable the Project to proceed lawfully, with respect to GCN.

Objectives

1.2.3 The objectives were to:

- Review existing ecological data to identify any records of GCN within the study area;
- Identify the presence of waterbodies in the survey area potentially suitable for GCN, using Ordnance Survey (OS) MasterMap, aerial photography (OS Terrain® 50 mid-resolution and LIDAR Composite 2017-50 cm (DTM), hereafter referred to as orthophotos), and habitat data collated during the Phase 1 habitat survey conducted for the Project (reported in **Application Document 6.8.A3 Appendix 8.3 Habitat Survey Report**);
- Conduct GCN HSI assessments on identified accessible waterbodies, followed by eDNA surveys of those waterbodies assessed as potentially suitable, to confirm presence or likely absence of GCN;
- Record other incidental species of amphibian or aquatic mammal encountered during the surveys;
- Provide baseline evidence and evaluate the ecological feature to inform the ecological assessment presented in **Application Document 6.8 Chapter 8 Ecology**; and
- Provide baseline data to inform any mitigation and licensing requirements for the Project in relation to GCN.

2. Legislation

2.1 Legislation Summary

2.1.1 This section lists the legislation that is relevant to GCN. More detailed information on legislation can be found in section 8.2 of **Application Document 6.8 Chapter 8 Ecology**.

2.1.2 The United Kingdom (UK) is no longer a member of the European Union (EU). However, EU legislation which applied directly or indirectly to the UK before 23:00 on 31 December 2020 has been retained in UK law as a form of domestic legislation known as retained EU legislation.

2.1.3 The Secretary of State for the Environment, Food and Rural Affairs and Welsh Ministers have made changes to parts of The Conservation of Habitats and Species Regulations 2017 (referred to as the Habitats Regulations) (HM Government, 2017) which transpose Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (the Habitats Directive) (The Council of the European Communities, 1992) into UK law so that they operate effectively. Most of these changes involve transferring functions from the European Commission to the appropriate authorities in the UK. All other processes or terms in the Habitats Regulations (HM Government, 2017) remain unchanged, and existing guidance is still relevant. Great crested newt is classified under the Habitats Directive (The Council of the European Communities, 1992) (as a species requiring strict protection in Europe). In the UK this is enabled by Habitats Regulations (HM Government, 2017). This protection prohibits:

- Intentional killing, injuring or capture of GCN;
- Intentional disturbance of GCN in such a way as to:
  - impair their ability to breed, reproduce,
  - impair their ability to migrate,
  - significantly affect the local distribution or abundance of the species;
- Damage or destruction of a breeding site or resting place.

2.1.4 Great crested newt is also included in the following international legislation conventions:

- Appendix II and IV of the Habitats Directive (The Council of the European Communities, 1992); and
- Appendix II of the Bern Convention (The Council of the European Communities, 1992).

2.1.5 Great crested newt is listed in Schedule 5 of the Wildlife Countryside Act 1981 (HM Government, 1981). They are fully protected by Section 9(1), (2), (4) and (5) of this act which make it an offence to:

- Intentionally kill, injure or take this species;

- Possess or control live or dead individuals of this species or their derivatives;
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place used for their shelter or protection;
- Intentionally or recklessly disturb this species whilst occupying a structure or place of shelter used for that purpose;
- Sell this species or offer or expose for sale or transport for sale; and
- Publish or cause to be published any advertisement which conveys the buying or selling of this species.

2.1.6 Section 10 of the Wildlife and Countryside Act 1981 (HM Government, 1981) provides a defence against the above offences where the action is the incidental result of an otherwise lawful operation and could not reasonably be avoided.

2.1.7 Section 40 of the Natural Environment and Rural Communities Act 2006 (NERC) (HM Government, 2006) sets out the 'general biodiversity objective' the furtherance of which a public authority must consider. The general biodiversity objective is the conservation and enhancement of biodiversity in England through the exercise of functions in England. In respect of the general biodiversity objective, the Secretary of State (SoS) have regard to the United Nations Environmental Programme Convention on Biological Diversity of 1992 (United Nations Environment Programme, 1992). Section 41 of the NERC Act 2006 (HM Government, 2006) requires the SoS to publish and maintain a list of habitats and species that are of Principal Importance for the purpose of conserving biodiversity, and are regarded as conservation priorities under the UK Post-2010 Biodiversity Framework (Joint Nature Conservation Committee on behalf of the Four Countries' Biodiversity Group, 2024). Great crested newt is on the Section 41 species list.

2.2 Natural England Licence

2.2.1 In the first instance, impacts to GCN should be avoided through considerate construction practices e.g. avoiding impacts to waterbodies, and through the implementation of buffer zones from known places of breeding and shelter.

2.2.2 Any operations that may impact on GCN or their places of rest or shelter as detailed in section 2.1, will require a mitigation licence from Natural England to enable works to proceed lawfully (an EPSL).

2.2.3 As described in section 1, DLL is not available in Nottinghamshire therefore the licensing route for the Project in Nottinghamshire, as agreed with Natural England, is to obtain an EPSML. The EPSML licence application will include a method statement using a Natural England template which includes an assessment of the impacts on GCN and will stipulate how GCN will be protected during construction works and how they will benefit from mitigation measures, habitat creation, habitat management and habitat maintenance.

2.2.4 The issuing of an EPSML can be for the purpose of preserving public health; public safety; other imperative reasons of overriding public interest, including those of a social or economic nature and beneficial consequences of primary importance for the environment. However, in accordance with the requirements of the Conservation of Habitats and Species Regulations 2017 (HM Government, 2017), a licence can only be issued where the following requirements are satisfied:

- There is no satisfactory alternative; and
- The action authorised will not be detrimental to the maintenance of the population of the species concerned at a favourable conservation status in their natural range.

2.2.5 A draft (or ghost) EPSL will be prepared and issued to Natural England following submission of the Development Consent Order (DCO) application, with the aim for agreement prior to examination. The EPSL would only be issued should the DCO be granted.

2.2.6 It is an offence not to comply with the terms and conditions of an EPSML once issued.

3. Methods

3.1 Desk-Study

3.1.1 A desk-study was carried out to inform the **Application Document 6.8 Chapter 8 Ecology**. This comprised both a data search for recent GCN records and a scoping exercise to identify waterbodies in the survey area that required further survey to determine the Project's potential impact on GCN.

3.1.2 As part of the desk-study Nottinghamshire Biological and Geological Records Centre was contacted, to request records for GCN within the study area, these data were received in October 2025.

3.1.3 The desk-study focused on data collected within ten years of data receipt to provide a more accurate representation of the current ecological conditions within the study area. By concentrating on recent data, the assessment better reflects the present baseline conditions, rather than relying on potentially outdated information which may not be representative of the current status of GCN in the local area.

3.1.4 The Multi-Agency Geographic Information for the Countryside (MAGIC) website (Department for Environment Food and Rural Affairs, 2026) was reviewed in February 2026 for any granted EPSMLs issued for GCN, GCN class survey licence returns, and GCN pond survey records within the study area, within the preceding ten years.

3.1.5 An online review of OS mapping and aerial imagery, including orthophotos, was conducted to identify potential waterbodies within the survey area (as shown on **Figure A8.12.2** in Annex A). Although this method might not guarantee the identification of all waterbodies, it represents the recommended approach within the constraints of available data. Furthermore, searches for waterbodies within the survey area were carried out during the completion of extended Phase 1 habitat surveys (**Application Document 6.8.A3 Appendix 8.3 Habitat Survey Report**) to identify any additional waterbodies requiring further assessment.

3.2 Field Survey

Habitat Suitability Index Assessment

3.2.1 Waterbodies identified within the survey area through the desk-study review (method described in Section 3.1) (as shown on **Figure A8.12.2** in Annex A) were subsequently scoped in for HSI assessment.

3.2.2 The HSI assessment was devised to quantitatively assess the suitability of waterbodies to support GCN using a numerical index. The HSI developed for GCN (Oldham, R.S., Keeble, J., Swan, M.J.S. and Jeffcote, M., 2000) incorporates ten field suitability factors, all of which are thought to affect GCN presence, such as the

geographical location of the pond[1], size of the pond, presence of fish and waterfowl, and the density of other ponds within 1 km. The ten field scores are then converted into one of five suitability categories with a score between zero (indicating unsuitable habitat) and one (representing optimal habitat).

3.2.3 Habitat Suitability Index scores are categorised in terms of waterbody suitability for GCN as below:

- Less than 0.5 = Poor;
- 0.5 – 0.59 = Below Average;
- 0.60 – 0.69 = Average;
- 0.7 – 0.79 = Good; or
- Greater than 0.8 = Excellent.

3.2.4 The assessment is not sufficiently precise to conclude that any particular waterbody with a high score will support GCN, or that a waterbody with a low score will not support GCN. However, it is a useful tool for establishing the potential suitability of waterbodies for breeding GCN to support further survey scoping.

3.2.5 Field data collection for the HSI assessments was conducted during 2024, 2025 and 2026. One visit to complete the HSI assessment was completed for each waterbody.

Environmental DNA Survey

3.2.6 Environmental DNA (eDNA) survey is an established technique approved by Defra and Natural England to establish the presence or likely absence of GCN within aquatic habitats.

3.2.7 In aquatic environments, eDNA is diluted and distributed. Sources of eDNA in the water derive from faeces, mucous, gametes, shed skin, and carcasses. The eDNA survey involves the collection of water samples for laboratory analysis for the species of interest, in this case, GCN. The sampling procedure is described in the published method (Biggs, J., Ewald, N., Valentini, A., Gaboriaud, C., Griffiths, R.A., Foster, J., Wilkinson, J., Arnett, A., Williams, P. and Dunn, F., 2014) and requires that the water sample be taken between 15 April and 30 June.

3.2.8 The eDNA surveys were carried out by ecologists who are registered to use the Natural England GCN survey class licence in accordance with the published method referenced above during the 2024, 2025 and 2026 survey seasons, using sampling kits and analysis services provided by an approved eDNA supplier (ADAS).

3.2.9 Environmental DNA sampling returns a result of positive (GCN eDNA has been detected in the water sample), negative (no GCN eDNA has been detected in the sample and GCN are likely absent), or indeterminate (the sample was degraded or otherwise could not provide a conclusive positive or negative result).

- Accessible waterbodies that held a sufficient level of water at the time of survey to take samples, were subject to an eDNA survey (as shown on **Figure A8.12.2 Great Crested Newt Survey Results (Nottinghamshire)**, in Annex A).

[1] The HSI assessment methodology (Oldham, R.S., Keeble, J., Swan, M.J.S. and Jeffcote, M., 2000) splits England, Scotland, and Wales into a series of different geographical Zones based on whether the area is optimal (Zone A), marginal (Zone B), or unsuitable (Zone C) for GCN. The study area is all located within Zone A.

3.2.10 in Annex A). One eDNA survey was completed at each waterbody. If an indeterminate result was obtained in a year, the waterbody would be re-visited where possible in a subsequent year to try to obtain a positive or negative result.

3.3 Nature Conservation Evaluation

3.3.1 Evaluation of GCN is required to inform the ES.

3.3.2 The value of each relevant biodiversity feature has been defined to the geographical scale at which it matters. The method of evaluation has been developed with reference to the Chartered Institute of Ecology and Environmental Management (CIEEM) Guidelines for Ecological Impact Assessment in the UK and Ireland – Terrestrial, Freshwater and Coastal and Marine (Chartered Institute of Ecology and Environmental Management, 2024).

3.3.3 These guidelines advise on scoping and carrying out environmental assessments and place appraisal in the context of relevant policies. Data received through consultation, desk-studies and field surveys are used to allow ecological features of nature conservation value or potential value to be identified, and the main factors contributing to their value are described and related to available guidance.

3.3.4 The frames of reference for this assessment are based on current best practice (Chartered Institute of Ecology and Environmental Management, 2024) and are:

- International (generally this is within a European context, reflecting the general availability of good data to allow cross-comparison);
- National (Great Britain, but considering the potential for certain biodiversity features to be more notable (of higher value) in English context relative to Great Britain as a whole);
- Regional (East Midlands, Yorkshire and Humber);
- County (Nottinghamshire);
- Borough (For example: Bassetlaw District Council);
- Local (biodiversity features that do not meet criteria for valuation at a borough or higher level, but have sufficient value to merit retention or mitigation (e.g. for purposes of ensuring no net loss of biodiversity)); and
- Negligible (common and widespread biodiversity features of such low priority that they do not require retention or mitigation at the relevant location to otherwise maintain a favourable conservation status, or to deliver wider relevant biodiversity objectives).

3.3.5 The value of a species may relate to its geographic location (species may be rare and more valued towards the edge of their geographic range), the extent to which the component species are threatened throughout their range, or their rate of decline. The value of a species associated with the Project has been defined with consideration of the relevant geographical frame of reference at which is considered important or significant.

3.4 Assumptions and Limitations

Desk-Study

3.4.1 The aim of the desk-study was to help characterise the baseline context of the study area and provide valuable background information that would not be captured by surveys alone. Information obtained during the desk-study was dependent upon people and organisations having made and submitted records within the study area. A lack of records for a particular species does not necessarily mean that this species does not occur in the study area. Likewise, the presence of records for a target species does not automatically mean that these still occur within the study area or are relevant in the context of the Project.

3.4.2 The level of detail and accuracy of desk-study records is reliant on the quality of information provided to Nottinghamshire Biological and Geological Records Centre. Furthermore, the precision of records provided from the Nottinghamshire Biological and Geological Records Centre can vary, with accuracy ranging from 100 m to 10 km, depending upon the source of the data. Therefore, it is not always possible to determine whether records relate to areas within or outside of the Order Limits, particularly if they are provided as a low-resolution grid square location. The desk-study information has been used to provide contextual evidence of species presence and assemblage composition within the wider landscape, with Project level evaluation and conclusions based primarily on targeted field surveys carried out between 2024 and 2026.

Field Survey

3.4.3 Surveys completed for GCN offer only snapshots of the location being assessed and do not take account of potential future changes in abundance or presence at a given site. However, by completing surveys in accordance with published best practice, the risks of providing unrepresentative assessments are reduced.

3.4.4 Within the survey area, seven waterbodies could not be surveyed due to land access restrictions; these are shown as not surveyed in **Figure A8.12.2 Great Crested Newt Survey Results (Nottinghamshire)**, in Annex A. The presence or likely absence of GCN in these waterbodies has therefore not been established.

3.4.5 Specific limitations encountered at individual waterbodies during the surveys have been included in Table 4.2.

3.4.6 Despite these limitations, it is considered that the surveys carried out provide an accurate representation of the current status of GCN in the survey area as the majority of waterbodies were accessed and surveyed using recognised survey techniques during the optimal survey season.

4. Results

4.1 Desk-Study

4.1.1 Nottinghamshire Biological and Geological Records Centre returned 23 GCN records across 15 locations[2] within the study area dated within ten years of data receipt. These data are listed in Annex B and shown in **Figure A8.12.1 Great Crested Newt Desk Study Records (Nottinghamshire)**, in Annex A. None of the returned results were located within the Order Limits, the closest (dated 2021) was 1.06 km northeast of the Order Limits in the Beckingham Marshes area (Route Section E).

4.1.2 A review of data on the MAGIC website (Department for Environment Food and Rural Affairs, 2026) returned no granted EPSML applications for GCN within the Order Limits. Two EPSML applications for GCN were returned within the study area:

- Two granted EPSML for GCN (dated 2020 – 2025) approximately 1.5 km southeast of the Order Limits in the Rampton area (Route Section E).

4.1.3 Great Crested Newt Class Survey Licence Returns (England) are shown on MAGIC website (Department for Environment Food and Rural Affairs, 2026) within the study area (dated within the last ten years) at the following locations:

- Five licence returns dated 2017 located approximately 1.60 km to 1.80 km east and northeast of the Order Limits, around West Burton Power Station; and
- Five licence returns dated 2017 located approximately 1.5 km southeast of the Order Limits in the Rampton area.

4.1.4 There were no records on the Great Crested Newt Pond Survey data (2017 – 2019) available on the MAGIC website (Department for Environment Food and Rural Affairs, 2026) relevant to Nottinghamshire.

4.1.5 A total of 43 waterbodies were identified within the survey area during the initial desk-study review of aerial imagery and mapping. Of these, three waterbodies were scoped out of further assessment following further review due to their size (over 2,000 m^2). A further six waterbodies were scoped out following a detailed review of the orthophotos, and phase 1 habitat data (where the pond was present within 50 m of the Order Limits) which confirmed that no waterbodies were present at the locations indicated on the OS mapping. (Nine waterbodies scoped out during the initial desk-study review in total, and 34 taken forward).

4.1.6 The results of the scoping exercise are presented in Annex C, which details which waterbodies were scoped out of further assessment and the reasons for this. The locations of the waterbodies are shown in **Figure A8.12.2 Great Crested Newt Survey Results (Nottinghamshire)**, in Annex A.

[2] In some cases multiple records were recorded at the same grid reference.

4.2 Field Survey

Habitat Suitability Index Assessment

4.2.1 The desk-study identified 34 waterbodies to be taken forward for field surveys; the locations of waterbodies are shown in **Figure A8.12.2 Great Crested Newt Survey Results (Nottinghamshire)**, in Annex A.

4.2.2 During the field surveys to complete the HSI assessments, seven waterbodies were scoped out of HSI assessment for GCN as they were dry at the time of the visit (see Annex C).

4.2.3 Seven waterbodies were not surveyed due access restrictions.

4.2.4 The HSI assessments were therefore conducted on 20 waterbodies. The number of waterbodies in each of the HSI categories is summarised in Table 4.1.

Table 4.1 – Number of waterbodies in each HSI category

Suitability	HSI score	Number of waterbodies
Excellent	Over 0.8	0
Good	Between 0.7 and 0.79	6
Average	Between 0.6 and 0.69	4
Below average	Between 0.5 and 0.59	7
Poor	Less than 0.5	3

4.2.5 The HSI scores for each waterbody are provided in Table 4.2, which also includes descriptions of the waterbodies. The individual scores for each of the ten HSI field score components for each waterbody are further detailed in Annex D, with photographs of the waterbodies provided in Annex E.

Environmental DNA Survey

4.2.6 Environmental DNA surveys were subsequently carried out on the waterbodies that had been subject to HSI assessment. Three ponds (P073C, P096B and P102A) were dry at the time of the eDNA survey so no water sample could be collected, as reported in Annex C.

4.2.7 Environmental DNA surveys were therefore carried out at 17 waterbodies; the locations of waterbodies and the eDNA results are shown in **Figure A8.12.2 Great Crested Newt Survey Results (Nottinghamshire)**, in Annex A.

4.2.8 Table 4.2 lists the waterbodies that were sampled for GCN eDNA, and any limitations noted during sample collection.

4.2.9 Positive eDNA results were returned for three waterbodies, none of which are within the Order Limits:

- P073B, 91 m west of the Order Limits, closest pylon 4AF172;
- P083C 230 m west of the Order Limits, closest pylon 4AF203; and
- P097D 29 m west of the Order Limits for the Biodiversity Net Gain Opportunity Area near Treswell Wood.

4.2.10 The remaining 14 waterbodies returned negative eDNA results.

Table 4.2 – Waterbody descriptions and survey results

Waterbody reference	Route Section	Distance from Order Limits	HSI score	HSI category	eDNA sample date	eDNA result returned	Description including any limitations to survey
P073	E	44 m	0.76	Good	01 May 2024	Negative	Golf course pond with dense common reed (*Phragmites australis*).
P073A	E	167 m	0.57	Below average	01 May 2024	Negative	Golf course pond shaded by willow (*Salix* sp.) and hawthorn (*Crataegus monogyna*), likely to dry out annually. Very shallow water at the time of survey.
P073B	E	91 m	0.51	Below average	01 May 2024	**Positive**	Golf course pond shaded by willow and hawthorn, likely to dry out annually. Very shallow water at the time of survey.
P073C	E	45 m	0.61	Average	N/A – Pond dry	N/A – Pond dry	Woodland pond adjacent to the river with emergent common reed. Surrounded by willow scrub and trees. Some pollution from human rubbish. Pond was dry at the time of the eDNA survey so no water sample was taken.
P074	E	44 m	0.76	Good	01 May 2024	Negative	Golf course pond with dense common reed.
P075	E	45 m	0.73	Good	01 May 2024	Negative	Golf course pond with dense common reed.
P076	E	39 m	0.71	Good	01 May 2024	Negative	Golf course pond with dense common reed.
P077	E	38 m	0.75	Good	01 May 2024	Negative	Golf course pond, connected to the River Idle by a dry ditch and pipes.
P083C	E	230 m	0.62	Average	28 April 2026	**Positive**	Large open pond, gentle sloping banks, half of bank covered with vegetation, high water turbidity.

Waterbody reference	Route Section	Distance from Order Limits	HSI score	HSI category	eDNA sample date	eDNA result returned	Description including any limitations to survey
P088	E	231 m	0.59	Below average	29 April 2024	Negative	Heavily shaded pond at the edge of a woodland.
P090	E	17 m	0.67	Average	03 June 2025	Negative	Large ornamental garden pond created over ten years ago, approximately 1 m deep. Surrounded by ornamental planting and managed grassland. Waterlilies and reeds present in the pond.
P096	E	12 m	0.44	Poor	23 May 2024	Negative	Fishing pond, located in the corner of an arable field. Some small trees line the pond edge. Managed grassland immediately surrounds the pond, with a sward height of approximately 10 to 20 cm.
P096B	E	1 m	0.40	Poor	N/A – Pond dry	N/A – Pond dry	Small woodland pond, mostly mud and very shallow water present. No aquatic vegetation was present. Pond was dry at the time of the eDNA survey so no water sample was taken.
P097A	E	9 m	0.55	Below average	15 May 2024	Negative	Partially filled in pond. Surrounding habitats include hedgerow, grassland and scrub. Algae is present in the pond, with high water turbidity.
P097D	E	29 m	0.70	Good	25 June 2026	**Positive**	Small pond on edge of arable field inundated with rush species and bulrush (*Typha latifolia*) surrounded by grassland. The pond had gentle sloping earth banks and held less than 10 cm of water at the time of survey, with the potential to be 1.2 m deep in Winter. Potentially dries annually.

Waterbody reference	Route Section	Distance from Order Limits	HSI score	HSI category	eDNA sample date	eDNA result returned	Description including any limitations to survey
P098	E	Inside the Order Limits	0.51	Below average	29 April 2024	Negative	Arable field boundary pond, possibly fed by the ditch to the west. Surrounded by willow. Some bramble and ground flora adjacent.
P098B	E	203 m	0.45	Poor	28 April 2026	Negative	Large, exposed pond with deep water, there was a small island in middle and gentle sloping banks with willow scrub present along banks. Access limited to approximately half of the pond due to deep water and dense scrub.
P099	E	75 m	0.50	Below average	18 June 2024	Negative	Heavily shaded woodland pond, with scrub restricting access. Limited access to the pond for eDNA sampling due to dense scrub.
P102	F	2 m	0.64	Average	15 May 2024	Negative	Turbid pond located in a grassland field. Open, with very little emergent vegetation.
P102A	F	69 m	0.56	Below average	N/A – Pond dry	N/A – Pond dry	Small open pond with very shallow water present. No aquatic vegetation was present. Pond was dry at the time of the eDNA survey, therefore no water sample was taken.

5. Summary and Evaluation

5.1 Desk Study

5.1.1 The desk-study did not identify any GCN records within the Order Limits. A total of 23 records were returned by the Nottinghamshire Biological and Geological Records Centre, the closest record (dated 2021) was approximately 1.06 km northeast of the Order Limits Beckingham Marshes area.

5.2 Field Survey

5.2.1 Following the desk-study exercise to identify waterbodies in the survey area, 34 waterbodies were taken forward for field surveys. Subsequently, seven waterbodies were scoped out of further assessment because they were dry at the time of the HSI assessment visit. Additionally, seven waterbodies were not surveyed due access restrictions.

5.2.2 A HSI assessment was therefore completed on 20 waterbodies and 17 of those were subject to eDNA sampling. Three ponds for which an HSI assessment was conducted (ponds P073C, P096B and P102A) were found to be dry at the time of the eDNA survey, and therefore no samples were taken.

5.2.3 During the eDNA surveys conducted over the 2024, 2025 and 2026 survey seasons, positive eDNA results were returned for three waterbodies (P073B, P083C and P097D). This indicates that GCN were present in these waterbodies. None of these waterbodies lie inside the Order Limits, the closest is P097D which is 30 m from the Order Limits (Biodiversity Net Gain Opportunity Area at Treswell); the other two waterbodies are located 90 m (P073B) and 230 m (P083C) from the Order Limits.

5.2.4 Negative eDNA results were returned for the remaining 14 waterbodies.

5.3 Nature Conservation Evaluation

5.3.1 Great crested newt is widespread throughout much of lowland England and Wales and is strictly protected under UK legislation (as set out in section 2).

5.3.2 Great crested newt is listed as a species of importance in the Nottinghamshire and Nottingham Local Nature Recovery Strategy (Nottinghamshire County Council, 2025).

5.3.3 Only three waterbodies were confirmed to support GCN in the survey area; approximately 18 per cent of those surveyed. Additionally, the GCN populations in the three waterbodies would not be part of the same metapopulation as they are located over 7 km from each other.

5.3.4 Considering the above, although GCN is a species of importance at a county level, with the limited number of waterbodies supporting this species in the survey area, the population of GCN within the Order Limits is assessed as being of value at the **Local** level.

6. Potential Interactions with the Project and Mitigation

6.1.1 None of the three waterbodies where GCN presence has been confirmed through eDNA surveys conducted during the 2024, 2025 and 2026 will be lost or directly affected by the Project. However, construction of the Project could disturb, harm or injure GCN should they be present in affected suitable terrestrial habitat which could include grassland, scrub, hedgerows, woodland and tree root habitats. The majority of land inside the Order Limits is arable which offers sub-optimal habitat for GCN which reduces the risk of GCN being affected by the works.

6.1.2 Seven waterbodies in the survey area could not be surveyed due to land access restrictions. All of these waterbodies will be retained and no construction works will be carried out within 50 m of the waterbodies therefore core terrestrial habitat will not be impacted. All seven waterbodies are over 500 m from confirmed GCN waterbodies, and lie between 12 m (this is to an existing road, which would act as a barrier to GCN movement) and 248 m from the Order Limits. Further attempts will be made to gain access to these waterbodies to confirm the presence or likely absence of GCN prior to construction, however if this cannot be established, a precautionary approach would be applied where works could impact suitable terrestrial habitat and they would be included in the EPSML. Measures could include habitat manipulation to encourage animals to move of their own volition to nearby undisturbed habitats, sensitive timing of works and hand searches prior to vegetation clearance.

6.1.3 Works affecting GCN and their habitat require a EPSML from Natural England. To grant a licence, Natural England must be assured that there is no satisfactory alternative and that the status of GCN will be maintained at the site.

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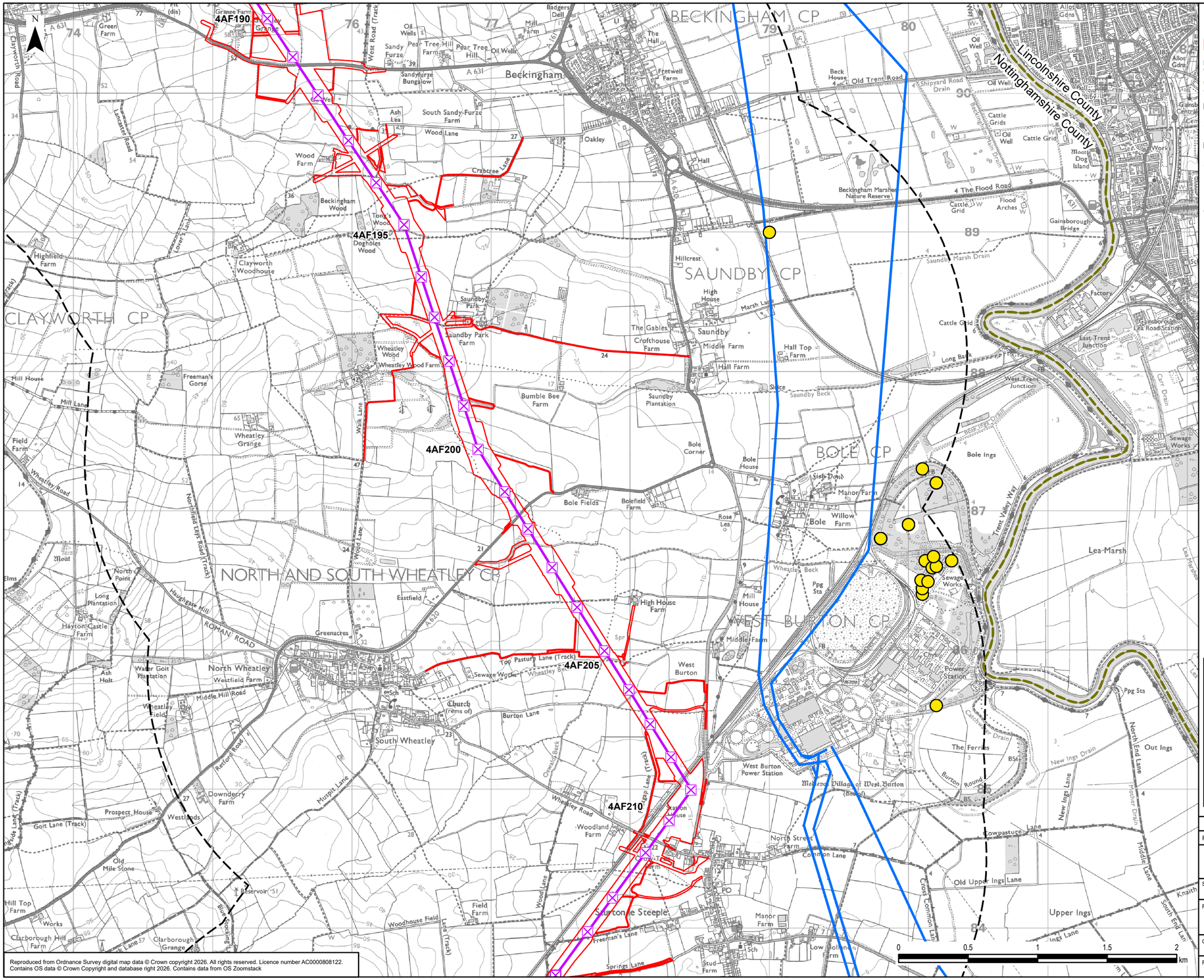
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Annex A
Figures

nationalgrid

Annex A
Figures

Figure A8.12.1 Great Crested Newt Desk Study Records (Nottinghamshire)



Legend

- Order Limits
- 2 km Desk Study Area
- County Boundary

Existing Overhead Line

- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt

- Great Crested Newt Record

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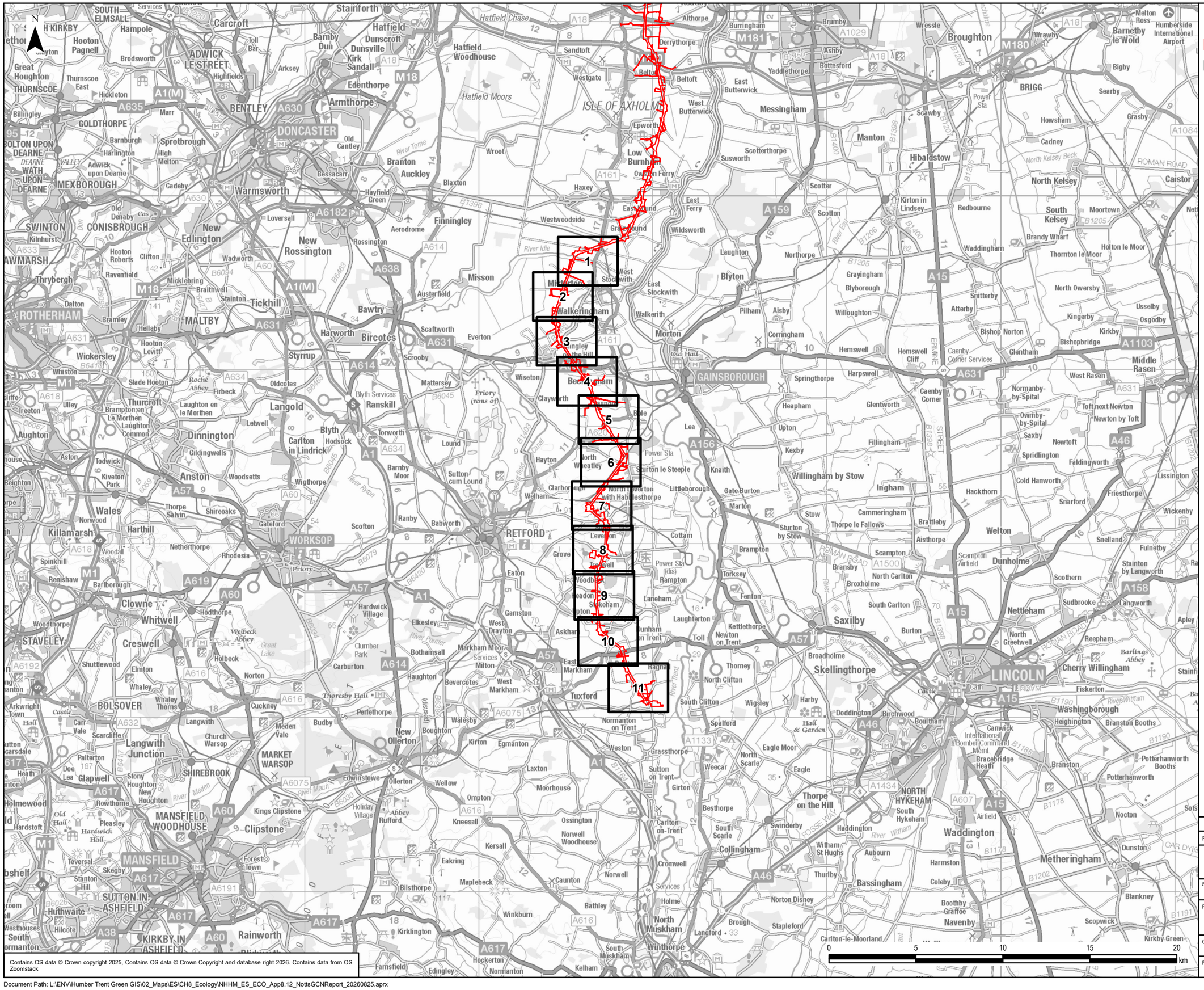
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Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Figure A8.12.2 Great Crested Newt Survey Results (Nottinghamshire)



Legend

- Order Limits
- Map Sheet

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - GREAT CRESTED NEWT SURVEY RESULTS (NOTTINGHAMSHIRE) KEY PLAN

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N

Route Section D
Route Section E

P073A
P073B
P073C
P073
P074
P075
P076
P077
P078
P079

4AF165
4AF170
4AF175

Nottinghamshire County

Sheet 1 and 2

P073C

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P079

0 7.5 15 22.5 30 m

P078

0 7.5 15 22.5 30 m

0 0.25 0.5 0.75 1 km

Legend

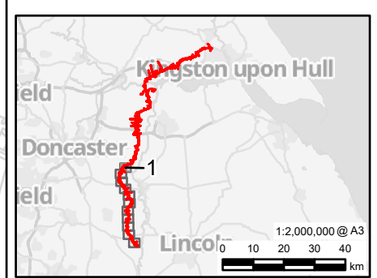
- Order Limits
- 250 m Survey Area
- Route Section
- County Boundary

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Negative
- Positive
- Scoped out



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Scheme: NORTH HUMBER TO HIGH MARNHAM

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Sheet 1 and 2

4AF175

P079A

4AF180

Sheet 2 and 3

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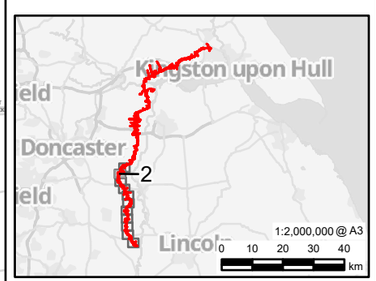
- Order Limits
- 250 m Survey Area
- County Boundary

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Scoped out



0 1 km

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N

Sheet 2 and 3

P081

P081A

4AF185

4AF190

Sheet 3 and 4

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Legend

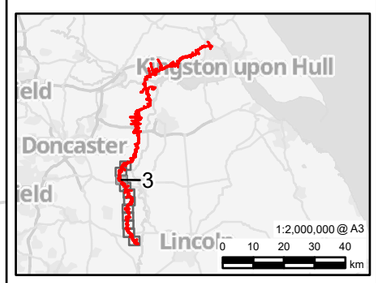
- Order Limits
- 250 m Survey Area
- County Boundary

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Scoped out



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4AF190

Sheet 3 and 4

4AF195

P082A

Sheet 4 and 5

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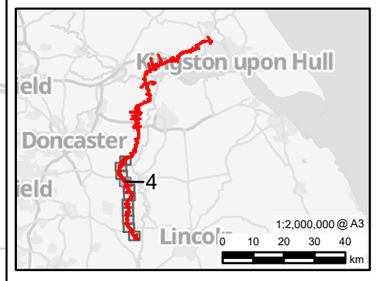
- Order Limits
- 250 m Survey Area
- County Boundary

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Scoped out



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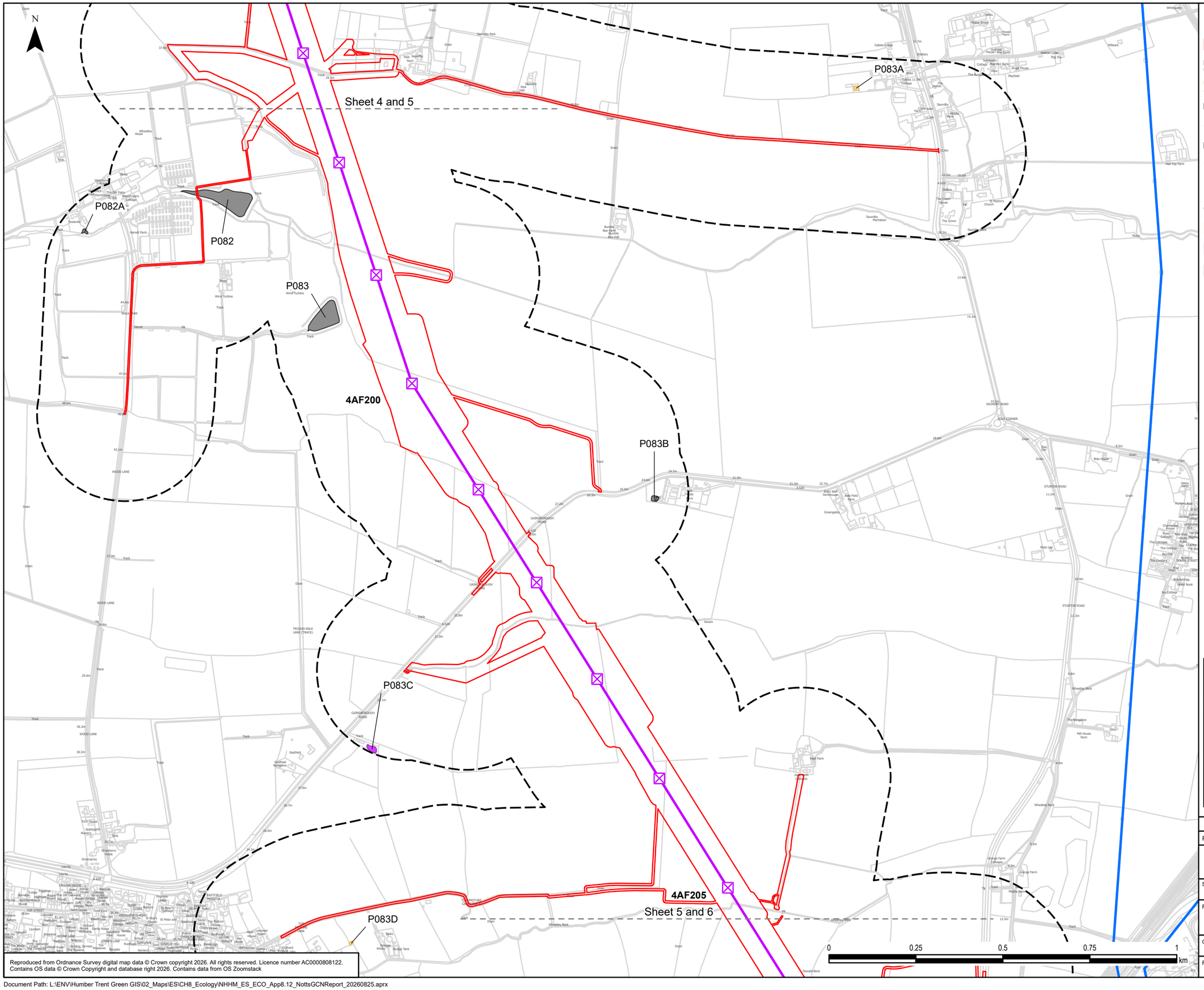
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Legend

- Order Limits
- 250 m Survey Area
- County Boundary

Existing Overhead Line

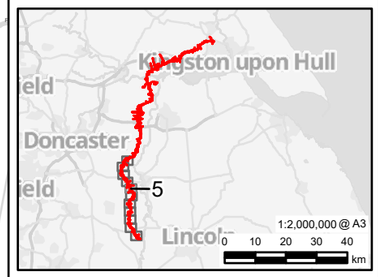
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Not surveyed
- Positive
- Scoped out



Rev	Date	Description	GIS	Chk	App
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Scheme: NORTH HUMBER TO HIGH MARNHAM

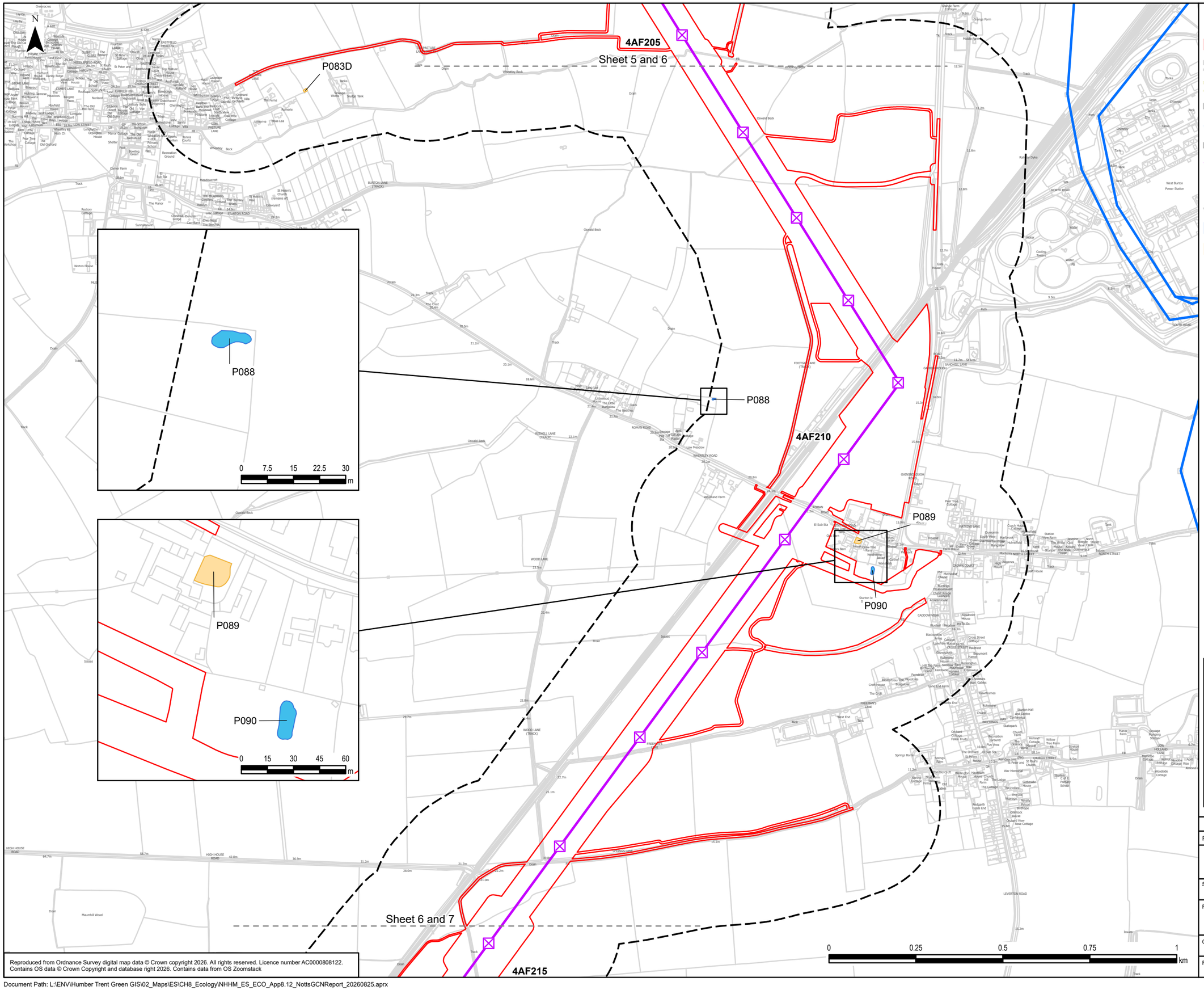
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Legend

- Order Limits
- 250 m Survey Area
- County Boundary

Existing Overhead Line

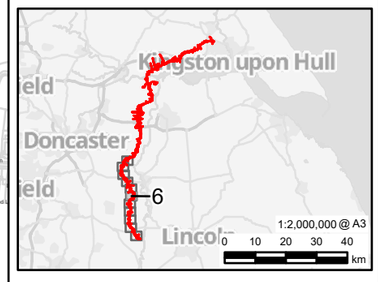
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Negative
- Not surveyed



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Figure Title: FIGURE 2 - GREAT CRESTED NEWT SURVEY RESULTS (NOTTINGHAMSHIRE)

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N

Sheet 6 and 7

4AF215

P096B

P096A

0 12.5 25 37.5 50 m

4AF220

P096B

P096A

P096

Sheet 7 and 8

4AF225

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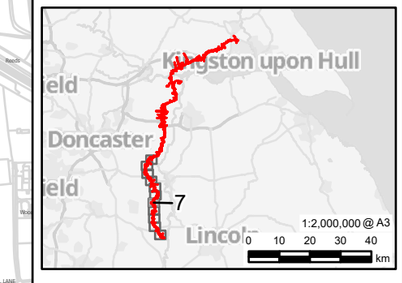
- Order Limits
- 250 m Survey Area
- County Boundary

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Negative
- Scoped out



Rev	Date	Description	GIS	Chk	App
0	02/10/2026	ENVIRONMENTAL STATEMENT	ID	JG	ZM

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - GREAT CRESTED NEWT SURVEY RESULTS (NOTTINGHAMSHIRE)

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N

Sheet 7 and 8

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4AF230

P097

P097A

P097B

P097C

P097D

P098

P098B

Sheet 8 and 9

Legend

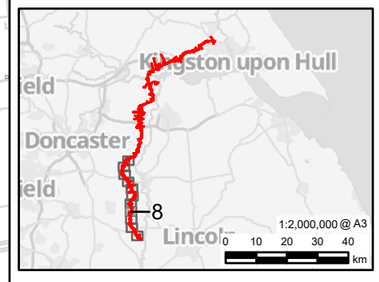
- Order Limits
- 250 m Survey Area
- County Boundary

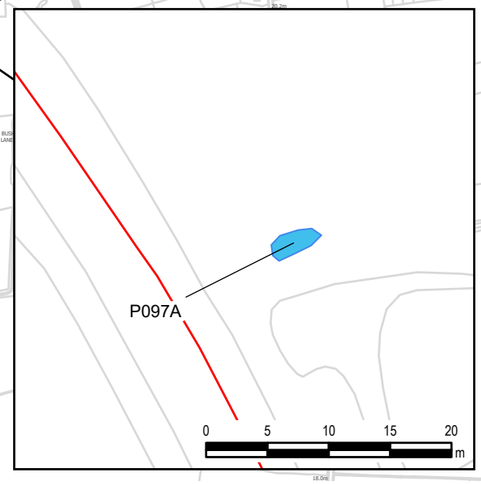
Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Negative
- Not surveyed
- Positive
- Scoped out





0 0.25 0.5 0.75 1 km

Rev	Date	Description	GIS	Chk	App
0	02/10/2026	ENVIRONMENTAL STATEMENT	ID	JG	ZM

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - GREAT CRESTED NEWT SURVEY RESULTS (NOTTINGHAMSHIRE)

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Sheet 8 and 9

4AF235

P099A

P099B

P099

P100

P101

Sheet 9 and 10

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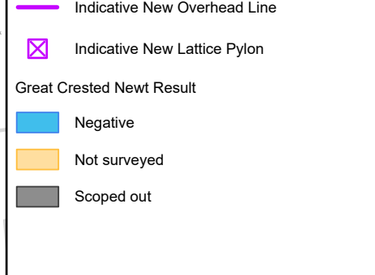
- Order Limits
- 250 m Survey Area
- County Boundary

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Negative
- Not surveyed
- Scoped out



Rev	Date	Description	GIS	Chk	App
0	02/10/2026	ENVIRONMENTAL STATEMENT	ID	JG	ZM

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - GREAT CRESTED NEWT SURVEY RESULTS (NOTTINGHAMSHIRE)

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Figure Ref:	Scale:	Format:	Sheets:	Rev:
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Document Path: L:\ENV\Humber Trent Green GIS\02_Maps\ES\CH8_Ecology\NHHM_ES_ECO_App8.12_NottsGCNReport_20260825.aprx

Sheet 9 and 10

P101

See Inset on Sheet 9 for Pond P101

4AF240

4AF245

Route Section E

Route Section F

Legend

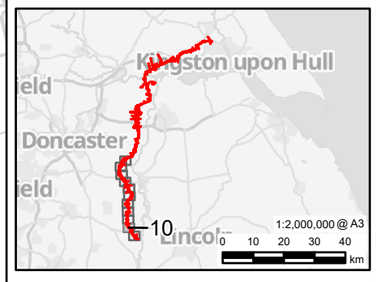
- Order Limits
- 250 m Survey Area
- Route Section
- County Boundary

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon

Great Crested Newt Result

- Scoped out



Rev	Date	Description	GIS	Chk	App
0	02/10/2026	ENVIRONMENTAL STATEMENT	ID	JG	ZM

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Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - GREAT CRESTED NEWT SURVEY RESULTS (NOTTINGHAMSHIRE)

Creator:	Date:	Checker:	Date:	Approver:	Date:
ID	02/10/2026	JG	02/10/2026	ZM	02/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.12.2	1:10,000	A3	10 OF 11	0

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N

Sheet 10 and 11

4AF250

P101C

P101D

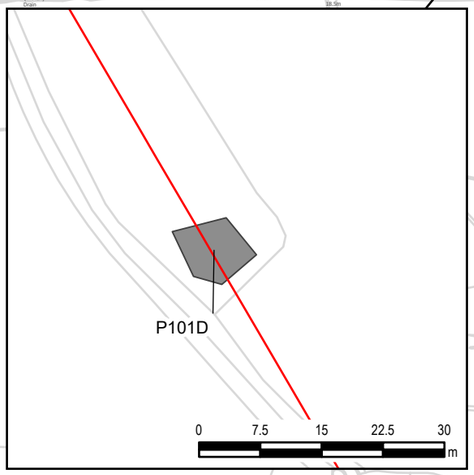
P102

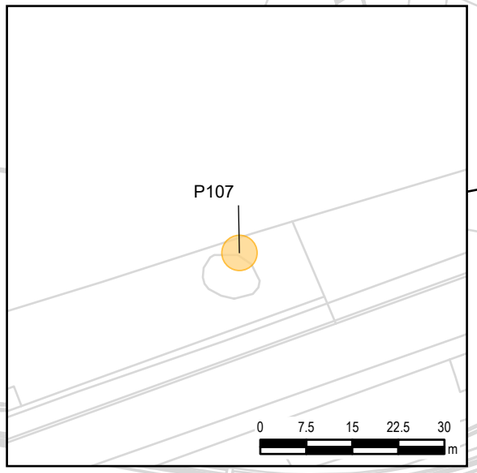
P102A

P107

4AF255

4AF260





0 0.25 0.5 0.75 1 km

Legend

- Order Limits
- 250 m Survey Area
- County Boundary

Existing Overhead Line

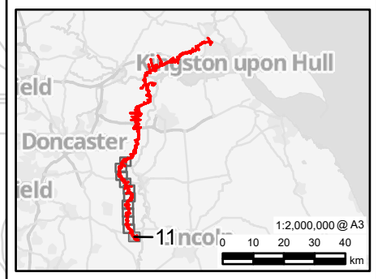
- 275 kV
- 400 kV

Project Design Details

- Indicative New Overhead Line
- Indicative New Lattice Pylon
- Indicative New Gantry

Great Crested Newt Result

- Negative
- Not surveyed
- Scoped out



Rev	Date	Description	GIS	Chk	App
0	02/10/2026	ENVIRONMENTAL STATEMENT	ID	JG	ZM

nationalgrid

Scheme: NORTH HUMBER TO HIGH MARNHAM

Figure Title: FIGURE 2 - GREAT CRESTED NEWT SURVEY RESULTS (NOTTINGHAMSHIRE)

Creator:	Date:	Checker:	Date:	Approver:	Date:
ID	02/10/2026	JG	02/10/2026	ZM	02/10/2026

Figure Ref:	Scale:	Format:	Sheets:	Rev:
A8.12.2	1:10,000	A3	11 OF 11	0

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Annex B
Great Crested Newt Records within the Study Area

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Annex B
Great crested newt records within the study area

Data received from Nottinghamshire Biological and Geological Records Centre in October 2025 contained 23 records for GCN dated within ten years of data receipt. These are listed below and shown in **Figure A8.12.1 Great Crested Newt Desk Study Records (Nottinghamshire)** (Annex A).

Species	Date	Record type	Location	Distance and direction from the Order Limits
Great crested newt	2021	2 adults	SK7989	1.06 km northeast
Great crested newt	2019	Torch survey - 1 adult	SK798868	1.63 km northeast
Great crested newt	2019	Torch survey - 1 adult	SK798868	1.63 km northeast
Great crested newt	2019	Bottle trapping and torch survey - 4 adults	SK798868	1.63 km northeast
Great crested newt	2019	Bottle trapping and torch survey - 6 adults	SK798868	1.63 km northeast
Great crested newt	2017	GCN eggs in pond	SK802856	1.64 km east
Great crested newt	2019	Bottle trapping - 1 adult	SK801864	1.67 km northeast
Great crested newt	2022	Positive eDNA record in pond	SK80108644	1.69 km northeast
Great crested newt	2022	Positive eDNA record in pond	SK80098650	1.71 km northeast
Great crested newt	2022	Positive eDNA record in pond	SK80148649	1.75 km northeast
Great crested newt	2022	Positive eDNA record in pond	SK80128664	1.80 km northeast
Great crested newt	2022	Positive eDNA record in pond	SK80178659	1.82 km northeast
Great crested newt	2019	Bottle trapping - 1 adult	SK801873	1.82 km southeast
Great crested newt	2019	Bottle trapping - 3 adults	SK802866	1.85 km northeast
Great crested newt	2019	Bottle trapping - 1 adult	SK800869	1.85 km northeast
Great crested newt	2019	Bottle trapping and torch survey - 9 adults	SK800869	1.85 km northeast
Great crested newt	2019	Bottle trapping - 1 adult	SK800869	1.85 km northeast
Great crested newt	2022	Positive eDNA record in pond	SK80188667	1.87 km northeast

Species	Date	Record type	Location	Distance and direction from the Order Limits
Great crested newt	2019	Torch survey - 15 adults	SK802872	1.95 km southeast
Great crested newt	2019	Bottle trapping and torch survey - 12 adults	SK802872	1.95 km southeast
Great crested newt	2019	Bottle trapping and torch survey - 13 adults	SK802872	1.95 km southeast
Great crested newt	2019	Bottle trapping and torch survey - 9 adults	SK802872	1.95 km southeast
Great crested newt	2022	Positive eDNA record in pond	SK80318664	1.96 km northeast

Annex C Waterbodies Scoped in or out for Further Assessment

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Annex C
Waterbodies scoped in or out for further assessment

Waterbody reference	Scoped in or out of further assessment	Scoped out through desk study	Scoped out during field survey
P073	Scoped in for further survey	No	No
P073A	Scoped in for further survey	No	No
P073B	Scoped in for further survey	No	No
P073C	Scoped out on site – Dry (2025)	No	Yes (HSI completed)
P074	Scoped in for further survey	No	No
P075	Scoped in for further survey	No	No
P076	Scoped in for further survey	No	No
P077	Scoped in for further survey	No	No
P078	Scoped out – No waterbody present	Yes	N/A
P079	Scoped out – No waterbody present	Yes	N/A
P079A	Scoped out – No waterbody present	Yes	N/A
P081	Scoped out – No waterbody present	Yes	N/A
P081A	Scoped out – Due to size, over 2000m^2	Yes	N/A
P082	Scoped out – Due to size, over 2000m^2	Yes	N/A
P082A	Scoped out on site – Dry (2026)	No	Yes
P083	Scoped out – Due to size, over 2000m^2	Yes	N/A
P083A	Scoped in – No access for surveys	No	N/A
P083B	Scoped out – No waterbody present	Yes	N/A
P083C	Scoped in for further survey	No	No
P083D	Scoped in – No access for surveys	No	N/A
P088	Scoped in for further survey	No	No
P089	Scoped in – No access for surveys	No	N/A
P090	Scoped in for further survey	No	No
P096	Scoped in for further survey	No	No
P096A	Scoped out on site – Dry (2025)	No	Yes

Waterbody reference	Scoped in or out of further assessment	Scoped out through desk study	Scoped out during field survey
P096B	Scoped out on site – Dry (2025)	No	Yes (HSI completed)
P097	Scoped out – No waterbody present	Yes	N/A
P097A	Scoped in for further survey	No	No
P097B	Scoped in – No access for surveys	No	N/A
P097C	Scoped out on site – Dry (2026)	No	Yes
P097D	Scoped in for further survey	No	No
P098	Scoped in for further survey	No	No
P098B	Scoped in for further survey	No	No
P099	Scoped in for further survey	No	No
P099A	Scoped in – No access for surveys	No	N/A
P099B	Scoped out on site – Dry (2026)	No	Yes
P100	Scoped out on site – Dry (2024, 2025, 2026)	No	Yes
P101	Scoped out on site – Dry (2024, 2025, 2026)	No	Yes
P101C	Scoped in – No access for surveys	No	N/A
P101D	Scoped out on site – Dry (2026)	No	Yes
P102	Scoped in for further survey	No	No
P102A	Scoped out on site – Dry (2025)	No	Yes (HSI completed)
P107	Scoped in – No access for surveys	No	N/A

Annex D
Detailed Results for the HSI Assessment

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Annex D
Detailed results for the HSI assessment

Waterbody Ref	Location	Score	Pond Area (m2)	Score	Permanence	Score	Water Quality	Score	Shade %	Score	Waterfowl	Score	Fish	Score	Pond Count	Score	Terrestrial habitat	Score	Macrophytes %	Score	HSI Score	Suitability
P073	Zone A	1	500	1	Sometimes dries	0.50	Moderate	0.67	0-60	1	Absent	1	Absent	1	10	0.93	Poor	0.33	30	0.60	0.76	Good
P073A	Zone A	1	150	0.30	Dries annually	0.10	Moderate	0.67	0-60	1	Absent	1	Absent	1	9	0.90	Moderate	0.67	0	0.30	0.57	Below average
P073B	Zone A	1	150	0.30	Dries annually	0.10	Moderate	0.67	95	0.30	Absent	1	Absent	1	9	0.90	Moderate	0.67	0	0.30	0.51	Below average
P073C	Zone A	1	300	0.30	Sometimes dries	0.50	Poor	0.33	80	0.60	Minor	0.67	Possible	0.67	9	0.90	Moderate	0.67	60	0.90	0.61	Average
P074	Zone A	1	500	1	Sometimes dries	0.50	Moderate	0.67	0-60	1	Absent	1	Absent	1	10	0.93	Poor	0.33	30	0.60	0.76	Good
P075	Zone A	1	350	0	Sometimes dries	0.50	Moderate	0.67	0-60	1	Absent	1	Absent	1	10	0.93	Poor	0.33	30	0.60	0.73	Good
P076	Zone A	1	200	0.40	Rarely dries	1	Moderate	0.67	0-60	1	Absent	1	Absent	1	10	0.93	Poor	0.33	10	0.40	0.71	Good
P077	Zone A	1	350	0	Rarely dries	1	Moderate	0.67	0-60	1	Absent	1	Absent	1	8	0.87	Poor	0.33	10	0.40	0.75	Good
P083C	Zone A	1	400	0.80	Rarely dries	1	Poor	0.33	0.60	1	Minor	0.67	Possible	0.67	1	0.33	Moderate	0.67	0	0.30	0.62	Average

Waterbody Ref	Location	Score	Pond Area (m2)	Score	Permanence	Score	Water Quality	Score	Shade %	Score	Waterfowl	Score	Fish	Score	Pond Count	Score	Terrestrial habitat	Score	Macrophytes %	Score	HSI Score	Suitability
P088	Zone A	1	50	0.10	Rarely dries	1	Moderate	0.67	85	0.50	Absent	1	Possible	0.67	10	0.93	Moderate	0.67	5	0.35	0.59	Below average
P090	Zone A	1	150	0.30	Never dries	0.90	Moderate	0.67	0-60	1	Minor	0.67	Possible	0.67	6	0.80	Poor	0.33	50	0.80	0.67	Average
P096	Zone A	1	1200	0.92	Never dries	0.90	Poor	0.33	0-60	1	Minor	0.67	Major	0.01	2	0.55	Moderate	0.67	15	0.45	0.44	Poor
P096B	Zone A	1	50	0.10	Dries annually	0.10	Poor	0.33	100	0.20	Absent	1	Absent	1	2	0.55	Moderate	0.67	0	0.30	0.39	Poor
P097A	Zone A	1	50	0.10	Never dries	0.90	Poor	0.33	0-60	1	Minor	0.67	Absent	1	3	0.65	Moderate	0.67	0	0.30	0.55	Below average
P097D	Zone A	1	180	0.40	Dries annually	0.1	Good	1	0-60	1	Absent	1	Absent	1	4	0.69	Good	1	70	1	0.70	Good
P098	Zone A	1	150	0.30	Sometimes dries	0.50	Poor	0.33	95	0.30	Minor	0.67	Possible	0.67	2	0.55	Moderate	0.67	20	0.50	0.51	Below average
P098B	Zone A	1	2000	0.8	Never dries	0.9	Moderate	0.67	0.60	1	Major	0.01	Possible	0.67	2	0.55	Moderate	0.67	0	0.30	0.45	Poor
P099	Zone A	1	100	0.20	Sometimes dries	0.50	Poor	0.33	100	0.20	Absent	1	Absent	1	4	0.69	Moderate	0.67	5	0.35	0.50	Below average

Waterbody Ref	Location	Score	Pond Area (m2)	Score	Permanence	Score	Water Quality	Score	Shade %	Score	Waterfowl	Score	Fish	Score	Pond Count	Score	Terrestrial habitat	Score	Macrophytes %	Score	HSI Score	Suitability
P102	Zone A	1	2000	0.8	Never dries	0.90	Poor	0.33	0-60	1	Minor	0.67	Possible	0.67	13+	1	Poor	0.33	5	0.35	0.64	Average
P102A	Zone A	1	200	0.4	Sometimes dries	0.50	Poor	0.33	0-60	1	Minor	0.67	Absent	1	4	0.69	Poor	0.33	0	0.30	0.56	Below Average

Annex E
Photographs of Waterbodies

nationalgrid

Annex E
Photographs of waterbodies

Waterbody reference	Photograph
P073 Scoped in for further survey - Negative	
P073A Scoped in for further survey - Negative	
P073B Scoped in for further survey - Positive	

Waterbody reference	Photograph
P073C Scoped out – Dry (2025). Habitat Suitability Index assessment completed, but insufficient water to complete eDNA survey at the time of the survey	
P074 Scoped in for further survey - Negative	
P075 Scoped in for further survey - Negative	

Waterbody reference	Photograph
P076 Scoped in for further survey – Negative	
P077 Scoped in for further survey – Negative	
P078 No waterbody present	Aerial view 

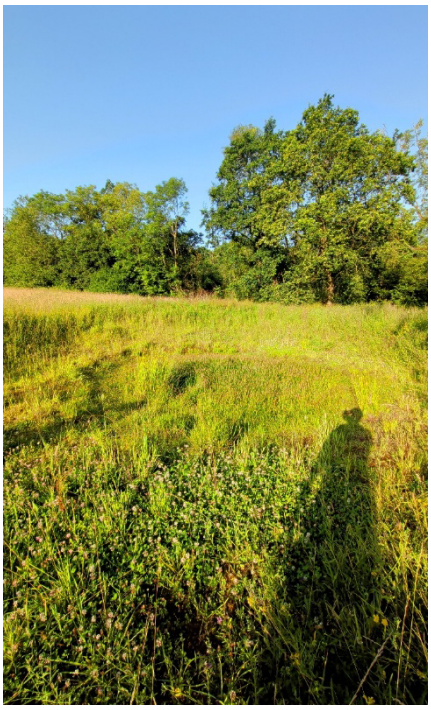
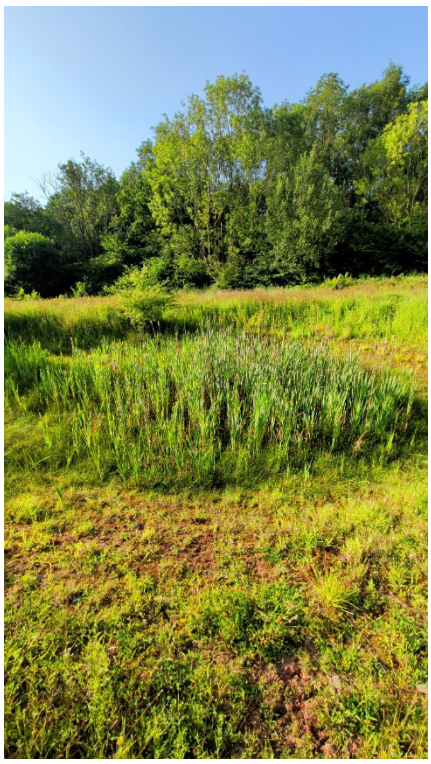
Waterbody reference	Photograph
P079 No natural waterbody present Swimming pool.	Aerial view 
P079A No waterbody present	Aerial view 
P081 No waterbody present	Aerial view 
P081A Scoped out – Due to size	No photograph.

Waterbody reference	Photograph
P082 Scoped out – Due to size	
P082A Scoped out – Dry (2026)	
P083 Scoped out – Due to size	
P083A Scoped in, but no access for survey	No photograph.

Waterbody reference	Photograph
P083B No waterbody present	Aerial view 
P083C Scoped in for further survey – Positive	
P083D Scoped in, but no access for survey	No photograph.
P088 Scoped in for further survey - Negative	
P089	No photograph.

Waterbody reference	Photograph
Scoped in, but no access for survey	
P090 Scoped in for further survey - Negative	
P096 Scoped in for further survey - Negative	
P096A Scoped out – Dry (2025)	

Waterbody reference	Photograph
P096B Scoped out – Dry (2025) Habitat Suitability Index assessment completed, but insufficient water to complete eDNA survey at the time of the survey	
P097 No waterbody present	Aerial view 
P097A Scoped in for further survey – Negative	
P097B Scoped in, but no access for survey	No photograph.

Waterbody reference	Photograph
P097C Scoped out – Dry (2026)	
P097D Scoped in for further survey – Positive	

Waterbody reference	Photograph
P098 Scoped in for further survey – Negative	
P098B Scoped in for further survey – Negative	
P099 Scoped in for further survey - Negative	
P099A Scoped in, but no access for survey	No photograph.

Waterbody reference	Photograph
P099B Scoped out – Dry (2026)	
P100 Scoped out – Dry (2024, 2025 and 2026)	
P101 Scoped out – Dry (2024, 2025 and 2026)	
P101C Scoped in, but no access for survey	No photograph.

Waterbody reference	Photograph
P101D Scoped out – Dry (2026)	
P102 Scoped in for further survey - Negative	
P102A Scoped out – Dry (2025) HSI assessment completed, but insufficient water to take eDNA sample at the time of the survey	
P107 Scoped in, but no access for survey	No photograph.

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