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Quality Assurance

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The evaluation and assessment provided in this report is specific to the iteration of the proposal detailed in *Section 1*. It would no longer be valid should the layout be changed in anyway, should the report be used for a different proposal at the same site or should it be used a maximum of 12 months after the date of issue.

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Figure 1 – Extended Phase 1 Habitat Survey

1 INTRODUCTION

1.1 Project Background

1.1.1 Marches Ecology was commissioned by the National Trust to undertake a Preliminary Ecological Appraisal of land off Hafod Road, Johnstown, Wrexham (Approximate OS Grid Ref. SJ 3133 4630). This Preliminary Ecological Appraisal (PEA) comprised an ecological background data search and an Extended Phase 1 Habitat Survey. This Ecological Appraisal is required to consider the potential impacts due to the construction of infrastructure associated with the proposed creation of a commemorative woodland. This report is provided as supporting information to a planning application, planning consent being required for the hard-landscaping/ construction elements of the proposal.

1.1.2 This report has three key aims:

- to provide an initial appraisal of the ecological value of the site and local ecological resource and thereby identify ecological constraints relevant to the proposal;
- to identify further surveys that may be required; and
- to identify potential mitigation/ compensation measures where possible along with opportunities to deliver ecological enhancement.

The structure of this Preliminary Ecological Appraisal Report (PEAR) is based on the guidance provided in the Chartered Institute of Ecology and Environmental Management (CIEEM) documents CIEEM (2017a) and CIEEM (2017b).

1.2 Report Author

1.2.1 This report was produced by Tom Knight of Marches Ecology. Tom Knight is an ecologist with over twenty-two years of consultancy experience and has undertaken Extended Phase 1 Habitat Surveys on a wide range of sites. His relevant academic qualifications and professional memberships are as follows:

- Chartered Environmentalist (Society for the Environment).
- Full Member of the Chartered Institute of Ecology and Environmental Management (CIEEM).
- PgDip Conservation Management.
- BSc (Hons) Environmental Studies.
- C&G Biological Surveying.

1.3 Site Description and Context

1.3.1 The survey site extends to approximately 9.5 hectares and is separated arbitrarily into two land parcels (shown as Area 1 and Area 2 on *Figure 1*). The first land parcel (Area 1), at the northwest end of the survey site, includes part of the car park that serves the Bonc Yr Hafod Country Park. As well as the hard-surfaced access road and car parking there is an area of managed grassland and scattered planted trees.

1.3.2 The second land parcel (Area 2) is located on the opposite side of Hafod Road and includes three agricultural pasture fields. Until recently (Autumn 2022) these fields were grazed. The fields are characterised by agriculturally improved grassland mostly bounded by defunct hedgerows or lines of trees/ shrubs. The survey site includes a hard-surfaced access track adjacent to the southern boundary. In places this track is lined with shrubs/ trees or

hedgerows. The western boundary is either fenced or there are fragments of hedgerow. There is a large waterbody at the southern end of the survey site.

1.3.3 The survey site is located to the east of the large village of Johnstown. It is largely located to the immediate east of Hafod Road. Bonc Yr Hafod Country Park is located to the west of Hafod Road, as is the Dennis of Ruabon tile-works complex. To the west of these industrial premises there is a large area that has been established as a mitigation site for Great Crested Newts and includes a number of ponds. The Hafod House Residential Home and a collection of other buildings are located to the south of the survey site. This includes areas of woodland, scrub and rough grassland. To the south of this there are further agricultural fields.

1.3.4 The A483 road and associated embankment is located to the east of the survey site. On the opposite side of this road there are further agricultural pasture fields. A residential property and agricultural pasture fields are located to the north of the survey site.

1.4 The Proposal

1.4.1 The proposal concerns the creation of a commemorative woodland on three agricultural fields at Hafod. The project has received Environmental Impact Assessment (Forestry) consent from National Resources Wales (NRW) that has allowed the tree and shrub planting to commence. Planning consent is required for the hard-works/ construction elements of the proposal.

1.4.2 Preliminary works for the tree and shrub planting started in November 2022 and are due for completion in March 2023. The outline phasing for the proposal is as follows:

- Phase 1 – Soft-works (October 2022-March 2023). Tree and shrub planting (approximately 13,000 new trees) and re-planting of a hedge. Phase 1 may also include works to address a drainage/ surface water issue in the southwest field.
- Phase 2 – Hard-works (Summer 2023-Autumn 2023). Dates to be confirmed. Installation of paths, highway crossing, bike racks, benches, verge alterations and excavation of ponds/ scrapes.
- Phase 2 – Soft-works. Planting of an orchard, wetland creation, flower meadow creation and bulb planting.

1.4.3 The proposal is illustrated on a National Trust plan entitled 'Proposed Site Plan', dwg. no. P03, Rev. C dated 04/11/22. This plan shows a mosaic of woodland areas, grasslands and wetlands with several new ponds to be created. The existing waterbody would be retained as would all existing sections of hedgerow (with the exception of a short stretch at the proposed Hafod Road crossing).

1.4.4 The proposed Hafod Road crossing is illustrated on an Acstro plan entitled 'Proposed Pedestrian Link to Bonc-Yr-Hafod Car Park', dwg. no. 1574-ACS-XX-ZZ-DR-T-001-A, dated 09/08/22.

1.4.5 The National Trust has provided further information on the construction of the paths, 'active travel link' and the design of the proposed ponds as follows:

- Internal paths. A total of approximately 1527 m (linear) will be constructed; that is a total surface area of 2748 m². The paths are to be 1.8 m wide and would be formed through excavation to a depth of 150 mm below the finished path surface. The path would be

lined with geotextile sheet followed by 150 mm of granular sub-base. The surface would be finished with 25 mm of whinstone dust. The excavated material is to be landscaped into the adjacent area.

- Active Travel Link. The active travel link is aligned adjacent to the Hafod Road site boundary. A total of approximately 591 m (linear) will be constructed; that is a total surface area of 1773 m². The active travel link would be 3 m wide. It would be constructed in the same way as the internal paths, using the same materials.
- Ponds. It is proposed to create up to four ponds or wetland areas (extending to 0.02 ha, 0.04 ha, 0.08 ha and a 'wetland complex' of 0.1 ha). A range of sizes of waterbodies are proposed with various maximum depths between 0.5 m and 1.5 m. It is proposed to dispose of the excavated material within the site.

1.4.6 No further detail with regards the proposed hard-works has been provided at this stage.

1.5 Planning Policy

Introduction

1.5.1 This section provides a brief summary of key national and local planning policies. It is not a comprehensive review of all such planning policy, the intention being to identify those considered to be of most relevance to ecology and provide context for the proposal.

Wales

Planning Policy Wales

1.5.2 Planning Policy Wales (PPW) sets out national land use planning policies (Welsh Government 2021). Chapter 6 is of particular relevance (though it is complementary to other themes within the document) and is entitled 'Distinctive and Natural Places'.

With specific reference to development proposals the following key statement is made:

'Development plan strategies, policies and development proposals must consider the need to:

- *support the conservation of biodiversity, in particular the conservation of wildlife and habitats;*
- *ensure action in Wales contributes to meeting international responsibilities and obligations for biodiversity and habitats;*
- *ensure statutorily and non-statutorily designated sites are properly protected and managed;*
- *safeguard protected and priority species and existing biodiversity assets from impacts which directly affect their nature conservation interests and compromise the resilience of ecological networks and the components which underpin them, such as water and soil, including peat; and*
- *secure enhancement of and improvements to ecosystem resilience by improving diversity, condition, extent and connectivity of ecological networks'.*

Furthermore, it states that:

'It is important that biodiversity and resilience considerations are taken into account at an early stage in both development plan preparation and when proposing or considering development proposals'.

'All reasonable steps must be taken to maintain and enhance biodiversity and promote the resilience of ecosystems and these should be balanced with the wider economic and social needs of business and local communities. Where adverse effects on the environment cannot be avoided or mitigated, it will be necessary to refuse planning permission'.

Use of the mitigation hierarchy is emphasised:

'Planning authorities must follow a stepwise approach to maintain and enhance biodiversity and build resilient ecological networks by ensuring that any adverse environmental effects are firstly avoided, then minimized, mitigated, and as a last resort compensated for; enhancement must be secured wherever possible'.

- 1.5.3 Areas that Chapter 6 covers include biodiversity and resilience of ecosystems duty, designated sites, maintaining and enhancing biodiversity, protected species, specific habitats/ areas, sustainable drainage systems (SuDS), green infrastructure, air quality, lighting, and de-risking development.

Technical Advice Note 5

- 1.5.4 PPW is supplemented by a series of Technical Advice Notes (TAN). TAN 5 covers 'Nature Conservation and Planning' (Welsh Government 2009). It provides advice to local planning authorities on how the land use planning system should contribute to protecting and enhancing biodiversity and geological conservation. It includes chapters covering the key principles of planning for nature conservation; the preparation and review of development plans; nature conservation in development control procedures; the conservation of internationally and nationally designated sites, habitats and local sites; and the conservation of protected and priority habitats and species.
- 1.5.5 In paragraph 2.4 it states that *'...when deciding planning applications that may affect nature conservation, local planning authorities should:*
- pay particular attention to the principles of sustainable development, including respect for environmental limits, applying the precautionary principle, using scientific knowledge to aid decision making and taking account of the full range of costs and benefits in a long term perspective (PPW 2.2.1¹);*
 - contribute to the protection and improvement of the environment, so as to improve the quality of life and protect local and global ecosystems, seeking to avoid irreversible harmful effects on the natural environment (PPW 2.3.2);*
 - promote the conservation and enhancement of statutorily designated areas and undeveloped coast (PPW 2.3.2);*
 - ensure that appropriate weight is attached to designated sites of international, national and local importance (PPW 5.3.2);*
 - protect wildlife and natural features in the wider environment, with appropriate weight attached to priority habitats and species in Biodiversity Action Plans (PPW 5.2);*
 - ensure that all material considerations are taken into account and decisions are informed by adequate information about the potential effects of development on nature conservation (PPW paragraphs 5.5.1 and 5.5.2);*
 - ensure that the range and population of protected species is sustained (PPW 5.2.3, 5.5.11 and 5.5.12);*

¹ References to the relevant part of PPW.

- *adopt a step-wise approach to avoid harm to nature conservation, minimise unavoidable harm by mitigation measures, offset residual harm by compensation measures and look for new opportunities to enhance nature conservation; where there may be significant harmful effects local planning authorities will need to be satisfied that any reasonable alternative sites that would result in less or no harm have been fully considered (PPW 5.2.2, 5.2.7 and 5.5.2).*

Wrexham

- 1.5.6 Local planning authorities will consider biodiversity/ nature conservation issues in accordance with adopted policies and plans. The following are considered of particular relevance to the proposal.

Wrexham Unitary Development Plan

- 1.5.7 The Wrexham Unitary Development Plan (UDP) was adopted in February 2005. It will be replaced by the Local Development Plan. The UDP '*...provides a framework for local decision making and the reconciliation of development and conservation interests...*'.

Relevant strategic and general development policies include:

- *Policy PS2. Development must not materially detrimentally affect countryside, landscape/townscape character, open space, or the quality of the natural environment.*
- *Policy PS11. Encouragement will be given to proposals which improve the biodiversity value of sites and to the establishment of local nature reserves where the nature conservation and landscape interest of the land will be protected and enhanced.*
- *Policy GDP1f). Ensure the safety and amenity of the public and safeguard the environment from the adverse effects of pollution of water, land or air, hazards from industry and quarrying, and associated noise, odour or vibration arising from development.*
- *Policy GDP1h). Safeguard sites and areas of nature conservation and wildlife interest, and to provide new habitats where there is an unavoidable loss of existing habitats and areas of wildlife interest.*

Section 5 of the UDP concerns 'Environment and Conservation'. The relevant policies listed are as follows:

- *Policy EC4. Development proposals should provide for the conservation and management of hedgerows, trees, orchards, woodland, wildlife and other natural landscape and water features, and include new planting in order to enhance the character of the landscape and townscape. Development which results in the loss or significant damage to valuable trees, important hedgerows or ancient woodland sites will not be permitted.*
- *Policy EC6. Development either within or close to sites of biodiversity interest will only be permitted where it can be clearly demonstrated that the need for the development outweighs the need to safeguard the intrinsic nature conservation value of the site. Where such development is permitted, damage should be kept to a minimum, and compensatory measures should be provided. Measures to improve the biodiversity value of sites and enhance their natural conservation interest and landscape quality including the establishment of local nature reserves, will be supported.*

- *Policy EC13. Development which would result in an unacceptable adverse impact on the water environment due to additional surface water run-off will not be permitted.*
- *Policy EC14. Development which would have an unacceptable adverse impact upon the capacity, flow, quality or availability of controlled waters and associated land will not be permitted.*

Local Planning Guidance

1.5.8 Wrexham County Borough Council (WCBC) has produced a series of supplementary planning guidance documents which set out detailed advice on the way in which Development Plan policies will be applied. Supplementary planning guidance is a material consideration in the determination of planning applications for development. The following Local Planning Guidance (LPG) notes are of particular relevance:

- LPG 17 Trees and Development. Adopted September 2000, Updated December 2012. Provides further advice in relation to UDP policy EC4.
- LPG 32 Biodiversity and Development. Adopted March 2011. Provides further advice in relation to UDP policies PS2, PS11, EC4 and EC6. Of particular importance it details the requirements for ecological survey and reporting.
- LPG 35 Great Crested Newt Mitigation Requirements – Johnstown Newt Site SAC and the Wider Countryside. Adopted June 2018.

1.6 Legislation

Introduction

- 1.6.1 This sub-section provides a brief summary of key legislation relevant to ecology/ nature conservation and the proposed development. It should not be considered a comprehensive review and is not meant to be so. It is provided here for information only and is not intended to replace specialised legal advice. It does not replace the text of the legislation but summarises the salient points. Further information on how this legislation affects the protection of particular species is provided in *Appendix 1*.
- 1.6.2 The UK exited the EU on 31st January 2020 followed by a transition period until the end of that year during which EU legislation and policy was followed². *'EU legislation which applied directly or indirectly to the UK before 11.00 pm on 31st December 2020 has been retained in UK law as a form of domestic legislation known as 'retained EU legislation'. This is set out in Sections 2 and 3 of the European Union (Withdrawal) Act 2018'*³.

The Conservation of Habitats and Species Regulations 2017, as amended (The Regulations)

- 1.6.3 Transposed the *EC Directive 92/43/EEC on the Conservation of Natural Habitats and of Wild Fauna and Flora 1992* into UK law. The Regulations provide for the protection of sites in the UK that support habitats and species of European importance (e.g., Special Protection Areas (SPAs) and Special Areas of Conservation (SACs)). The Regulations also provide full protection for certain species which are frequently referred to as European Protected

² <https://cieem.net/referencing-environmental-eu-legislation-post-brexite/>

³ <https://www.legislation.gov.uk/eu-legislation-and-uk-law#:~:text=The%20UK%20is%20no%20longer,on%20legislation.gov.uk>

Species (EPS). EPS of potential relevance to the site include bats and Great Crested Newt (*Triturus cristatus*).

The Wildlife and Countryside Act 1981, as amended (WCA)

- 1.6.4 The WCA strengthened protection for nature conservation sites of at least national importance and provides varying levels of protection for a number of species within the UK. This protection may include prohibition of some or all of: killing, injuring, disturbing, taking, sale/barter or possession of species and also protection of breeding/ sheltering places. The following species/ species groups that receive some level of protection under the WCA and are of potential relevance to the proposal include Badger (*Meles meles*), bats, Great Crested Newts, reptiles and birds. The WCA also prohibits the spread of certain non-native invasive species.

The Countryside and Rights of Way Act 2000 (The CRow Act)

- 1.6.5 The CRow Act includes legislation in relation to the Biodiversity Action Plan; more stringent management, protection and consenting measures for SSSIs; greater penalties for wildlife crime; and greater protection for species listed in the WCA. Some of this legislation was superseded by the NERC Act.

The Natural Environment and Rural Communities Act 2006 (The NERC Act)

- 1.6.6 Sections 40 to 42 of the NERC Act replace Section 74 of the CRow Act. Section 40 of the NERC Act extends to all public authorities (including local planning authorities) the existing Section 74 duty to have regard to biodiversity as far as is consistent with the proper exercise of their functions. In addition, Sections 41 (England) and 42 (Wales) provide a list of species and habitats of principal importance for conservation of biological diversity. Government has a statutory duty to promote steps “to further the conservation” of habitats and species listed in Sections 41 and 42.

Environment (Wales) Act 2016

- 1.6.7 The Environment Act enhances and replaces the current NERC Act (Section 40) duty to require all public authorities, when carrying out their functions in Wales, to seek to ‘maintain and enhance biodiversity’ where it is within the proper exercise of their functions. In doing so, public authorities must also seek to ‘promote the resilience of ecosystems’. Section 7 of the Environment Act provides a list of the living organisms and habitats of principal importance for the purpose of maintaining and enhancing biodiversity in Wales. This list replaces that previously provided in Section 42 of the NERC Act.

The Protection of Badgers Act 1992 (The Badgers Act)

- 1.6.8 The Badgers Act provides for the protection of Badgers and their setts. This legal protection is provided for welfare rather than the conservation value of the species.

2 METHODOLOGY

2.1 Desk Study

2.1.1 A desk study was undertaken to provide background information on the ecological status of the survey site and its surroundings (a 1 km search area centred on the site was defined). Information was requested from Cofnod. Information sought included designated (nature conservation) sites, Ancient Woodland/ other habitats, legally protected species and other species of nature conservation interest. In addition, contextual information available on the MAGIC environmental database (<http://magic.defra.gov.uk/>) was consulted.

2.1.2 Cofnod provide two sets of records – a ‘Confidential’ set which is not authorised for release into the public domain, and a ‘Public Version’ where the accuracy of some of the grid references has been reduced. The Confidential data set has been issued to the client as part of this study; ‘Public Version’ records are utilised in this document (the full report of which is provided as *Appendix 2*).

2.2 Field Survey

Extended Phase 1 Habitat Survey

2.2.1 The Extended Phase 1 Habitat Survey was carried out on 22nd November 2022 by Tom Knight of Marches Ecology. The Extended Phase 1 Habitat plan is provided as *Figure 1*. The survey focussed on land within the site boundary (the ‘survey site’, refer to *Figure 1*). The ‘survey site’ includes both land parcels, either side of Hafod Road. Immediately adjacent habitat was considered where deemed appropriate and viewed from the survey site boundary where possible. The weather during the survey was 60% white/ grey cloud cover with some sunny spells and a light breeze.

2.2.2 Phase 1 Habitat Survey involves identifying areas or features of particular interest either in terms of their botanical interest, and/or habitat potential for protected or other notable species that are likely to occur in the region and within the survey site. The Phase 1 Habitat Survey has been adapted in this instance as an ‘extended’ Phase 1 Habitat Survey, where more information has been obtained to inform site assessment. The methods used centre on the Phase 1 Habitat Survey approach (JNCC 2010) as extended for use in Environmental Impact Assessment (Institute of Environmental Assessment 1995). Extended Phase 1 Habitat Survey involves the following elements:

- Habitat mapping using a set of standard colour codes to indicate habitat types on a Phase 1 Habitat map.
- Description of features of ecological or nature conservation interest in notes relating to numbered locations on the Phase 1 Habitat map, called target notes.

2.2.3 In addition to the habitat map and target notes, a plant species list was compiled (provided in *Table 1, Section 7*). Plant nomenclature in this report follows Stace (2022). November is outside the accepted survey period for Extended Phase 1 Habitat Surveys. It is unrealistic to suppose that walk-through surveys can generate completely exhaustive species lists at any time of year. It is considered that the list in this report indicates the character of the vegetation and the ecological value of the area inspected.

2.2.4 Further information describing the assessment conducted during the Extended Phase 1 Habitat Survey for particular species is provided briefly below:

- Badger. Areas within the survey site that might be used by Badger for foraging and sett building were assessed. Incidental foraging signs, tree scratching, paths, latrines and setts were recorded if found (Harris *et al.*, 1989).
- Bats. The potential value of the habitat for foraging/ commuting and roosting was assessed in accordance with *Table 4.1* provided in Collins (2016).
- Great Crested Newts. The quality of terrestrial and aquatic habitat for Great Crested Newts was assessed. The assessment of aquatic habitat was based on the Habitat Suitability Index (Oldham, *et al.* 2000).
- Reptiles. A qualitative assessment of the habitat for reptiles was undertaken. The survey involved identifying potential basking areas, hibernation sites and foraging habitat. English Nature (2004) provides information on the distribution and ecology of the four widespread species. Habitat requirements differ between species but are summarised in Edgar *et al.* (2010).
- Birds. The habitat within the survey site was assessed for its potential value for breeding birds based on guidance provided in e.g., JNCC (2004).

2.3 Survey Limitations

2.3.1 The following may be considered survey limitations:

- The Extended Phase 1 Habitat Survey was undertaken outside the recognised survey period. Some flowering plants will not have been visible.
- The Extended Phase 1 Habitat Survey was undertaken on the day following a day of heavy rain. This may have obscured/ destroyed evidence of use by protected/ notable species.
- Some small parts of the survey site are characterised by dense scrub/ vegetation which may have obscured evidence of use by protected/ notable species.
- Tree foliage obscured parts of the trunk and upper branches.
- It was difficult to establish the exact survey site boundary in some parts of the site.
- Tree planting preparations had been undertaken with an excavator in some parts of Area 2. It is possible that these works may have obscured/ destroyed evidence of use by protected/ notable species.

None of the survey limitations listed above significantly affected the findings of the survey and therefore the conclusions and prescribed mitigation measures.

2.4 Evaluation

2.4.1 The ecological importance (value) of habitats and/or species is often assessed according to a number of widely used criteria of which perhaps the most frequently used are naturalness, extent, rarity, and diversity. For the purpose of this report the ecological importance of the habitat and species present on the site has been determined using the approach detailed in CIEEM (2018). Geographical context is used as a frame of reference for identifying the importance of ecological features. The frame of reference has the following categories: International/ European - National - Regional - Metropolitan/County/Vice-county/ other local-authority wide area - Local. Within this report Local is defined as relating to district or parish; less than local refers to features of value at a Site level.

- 2.4.2 Broadly speaking habitat importance should be determined by identifying designated sites, 'priority habitats' (as defined in CIEEM, 2017a) or by using published, ideally local, site selection criteria. The ecological importance of a species considers its distribution and legal or conservation status, the latter is mostly due to inherent rarity. 'Priority species' are also defined in CIEEM (2017a) and include legally protected species as well as those identified on various conservation lists.

3 BASELINE ECOLOGICAL CONDITIONS

3.1 Protected Sites

Statutory

- 3.1.1 There are two statutory designated sites within 1 km of the survey site: Johnstown Newt Sites Special Area of Conservation (SAC)/ Stryt Las a'r Hafod Site of Special Scientific Interest (SSSI). These protected sites include several separate land parcels around Johnstown and Ruabon. The closest part of this protected site is Bonc Yr Hafod Country Park which is located immediately to the west of the survey site at its closest point.
- 3.1.2 Johnstown Newt Sites SAC extends to 69.29 hectares. No *Annex I* habitats are given as a primary reason for selection of the site as an SAC or as a qualifying feature. Great Crested Newt is the *Annex II* species that is the primary reason for selection of the site as an SAC. No *Annex II* species are given as a qualifying feature. The following description is reproduced from the SAC citation:
- 'This site lies near to Wrexham in north-east Wales and is composed of two post-industrial sites where coal and clay have been extracted. The population of Great Crested Newts Triturus cristatus is one of the largest known in Great Britain and has been the focus of much conservation management over the last few years. Breeding sites are provided in part by a mining subsidence pool, and natural water-filled hollows on clay, whilst other ponds have been created as part of nature conservation management. Terrestrial habitat varies from marshy grassland, grazed farmland and swamp through to scrub and broad-leaved woodland. Good populations of the widespread amphibian species are also present'.*
- 3.1.3 Stryt Las a'r Hafod SSSI extends to 69.4 hectares and the boundary largely corresponds with the SAC. The citation states that *'the water bodies at Stryt Las and Hafod support one of the largest known breeding populations of the Great Crested Newt in Great Britain'*. It also notes the presence of *'significant populations'* of the four common amphibian species.
- 3.1.4 Part of the survey site is located within the Bonc Yr Hafod Country Park. Country Parks have been designated primarily for recreational purposes.

Non-statutory

- 3.1.5 There is one non-statutory designated site within 1 km of the survey site: Erddig Estate Wildlife Site (WS). The southern tip of the Erddig Estate WS is located approximately 677 m to the northeast of the survey site at its closest point. The citation for this WS states that it includes various woodlands, semi-improved neutral grasslands and marshes. The woodland includes some wet *Alnus glutinosa* (Alder) woodland and the ground flora of the woodlands is species-rich in places. The marshy grassland is also noted as being species-rich. Mature parkland trees and an insect assemblage that includes a number of rare/ notable species are particular features.
- 3.1.6 There is one Restored Ancient Woodland Site (RAWS) within 1 km of the survey site. It is part of the Erddig Estate WS and is approximately 677 m to the northeast of the survey site at its closest point.
- 3.1.7 Bonc Yr Hafod Country Park has been included in the North East Wales Important Invertebrate Area (IIA). IIAs are not formally designated but are essentially a planning tool used by the charity Buglife.

3.2 Habitats and Flora

Introduction

- 3.2.1 The Extended Phase 1 Habitat map is provided as *Figure 1*. The Target Notes (numbered 1 to 25) are provided in *Section 5* and shown on *Figure 1*.

Area 1

Trees/ Scrub

- 3.2.2 There are small stands and scattered planted young/ semi-mature trees, largely with approximate diameter at breast height (dbh's) of 0.1-0.2 m throughout Area 1 (*Target Note 25*). The largest, a *Castanea sativa* (Sweet Chestnut) has an approximate dbh of 0.3 m. Most of the trees are *Betula pendula* (Silver Birch) with smaller amounts of *Quercus robur* (Pedunculate Oak), *Acer campestre* (Field-maple), *Sorbus aucuparia* (Rowan), *Prunus padus* (Bird Cherry), *Pinus sylvestris* (Scots Pine), *Ulmus* sp. (Elm) and *Aesculus hippocastanum* (Horse Chestnut). The ground layer beneath the trees is largely bare or is dominated by *Galium aparine* (Cleavers) and *Urtica dioica* (Common Nettle) with some *Rubus fruticosus* agg. (Bramble).



Some of the trees (*Target Note 25*) and grassland (*Target Note 24*) from Hafod Road.

Grassland

- 3.2.3 Area 1 includes less frequently managed amenity grassland (*Target Note 24*). It varies from species-poor to moderately species-rich and the sward height from 0.1-0.25 m. It contains abundant *Lolium perenne* (Perennial Rye-grass), locally abundant *Bellis perennis* (Daisy), frequent *Holcus lanatus* (Yorkshire-fog), *Dactylis glomerata* (Cock's-foot), *Ranunculus repens* (Creeping Buttercup), occasional *Festuca rubra* (Red Fescue), *Trifolium repens* (White Clover), *Achillea millefolium* (Yarrow), *Taraxacum officinale* (Dandelion) and a small amount of *Centaurea nigra* (Common Knapweed).



Amenity grassland at Target Note 24.

Other Habitat

- 3.2.4 There are small stands of tall ruderals – Common Nettle – associated with some of the clumps of trees and adjacent to a fence-line.
- 3.2.5 The car park is laid to hard-standing with a tarmac surface.

Area 2

Woodland/ Trees

- 3.2.6 There is a small young broad-leaved plantation woodland on either side of the vehicle track at Target Note 18. It contains *Fraxinus excelsior* (Ash), *Prunus avium* (Wild Cherry), Pedunculate Oak, Silver Birch, *Carpinus betulus* (Hornbeam), *Corylus avellana* (Hazel) and *Crataegus monogyna* (Hawthorn). It is located on an embankment up to a bridge over the A483 road. The ground layer is dominated by Bramble. On the north side there is a dry ditch at the base of the slope that is approximately 1.5 m deep and 2 m wide.



The plantation and track at Target Note 18.

3.2.7 There are a number of trees scattered throughout Area 2, all of which are confined to the site or field boundaries, as follows:

- **Target Note 1a.** Two mature Ash trees, the largest has an approximate dbh of 0.5 m. These trees may be located just outside the survey site boundary.
- **Target Note 1b.** Several semi-mature/ mature *Salix fragilis* (Crack Willow) trees with approximate dbh's of up to 0.5 m. Some of these trees are located just outside the survey site boundary.
- **Target Note 3a.** A semi-mature Pedunculate Oak with an approximate dbh of 0.5 m and a semi-mature Wild Cherry with an approximate dbh of 0.4 m.
- **Target Note 3b.** Two semi-mature Pedunculate Oak trees with approximate dbh's of 0.3 m and 0.5 m.
- **Target Note 5a.** Semi-mature Pedunculate Oak trees with approximate dbh's of 0.3 m and 0.5 m.
- **Target Note 5b.** A semi-mature *Acer pseudoplatanus* (Sycamore) tree with two main stems, the largest of which has an approximate dbh of 0.5 m.
- **Target Note 10a.** Three semi-mature/ mature Wild Cherry trees with approximate dbh's of 0.25-0.5 m.
- **Target Note 14.** A defunct hedge that contains two young Pedunculate Oak trees.
- **Target Note 14a.** A mature Sycamore tree with an approximate dbh of 0.8 m.
- **Target Note 16a.** A semi-mature Ash tree with an approximate dbh of 0.4 m which is covered in dense *Hedera helix* agg. (Ivy). There is an adjacent young Sycamore.
- **Target Note 16b.** A semi-mature Sycamore tree with an approximate dbh of 0.3 m.
- **Target Note 16c.** A semi-mature/ mature Sycamore tree. It is multi-stemmed; the largest stem has an approximate dbh of 0.3 m.
- **Target Note 21.** A mature Ash tree that is multi-stemmed; the largest stem has an approximate dbh of 0.35 m.



The Sycamore tree at Target Note 14a.

Hedgerows/ Scrub

- 3.2.8 Most of the field boundaries within Area 2 are formed by defunct hedges/ lines of shrubs (*Target Notes 1, 3, 5, 10, 12 and 14*). The feature at *Target Note 1*, which may be immediately outside the survey site boundary, is typical of these features. It is a defunct, gappy hedge that largely comprises a line of semi-mature/ mature Hawthorn to approximately 6-8 m high with a small amount of *Rosa canina* agg. (Dog-rose). It appears to be currently unmanaged. It is located on a low earth bank. Ivy is locally frequent in the base otherwise it is characterised by species from the adjacent improved grassland. Some of these defunct hedges also contain *Prunus spinosa* (Blackthorn) (e.g., *Target Note 5*).



The defunct hedge at *Target Note 14*.



Part of the defunct hedgerow at *Target Note 5* with associated Oak trees.

- 3.2.9 The hedge that is aligned adjacent to Hafod Road at *Target Note 6* is managed to approximately 1.7-2 m high and 1.7 m wide. It contains abundant Hawthorn and Blackthorn with occasional Dog-rose and lesser amounts of *Sambucus nigra* (Elder), *Ulmus glabra* (Wych Elm), *Ilex aquifolium* (Holly), Hazel, Field-maple, Sycamore and Ash. It is partly located on a low earth bank. The base is largely dominated by Ivy. *Geum urbanum* (Wood Avens), *Mercurialis perennis* (Dog's Mercury) and *Dryopteris filix-mas* (Male-fern) were also noted.



Part of the hedge at Target Note 6.

- 3.2.10 The defunct hedge/ line of semi-mature Hawthorn to approximately 6 m high at *Target Note 12* is located outside the survey site.
- 3.2.11 There are scattered mature Hawthorn shrubs along the southern field boundary (*Target Note 16*).
- 3.2.12 The hedge at *Target Note 20* is managed to approximately 2.5 m high and 1.2 m wide. It is dominated by Hawthorn with a small amount of Elder.
- 3.2.13 The hedge at *Target Note 22* is largely recently planted and mostly outside the survey site.

Grassland

- 3.2.14 The agriculturally improved grassland field at *Target Note 9* is typical of the fields within Area 2. It is grass dominated with few forbs. There are a few more forbs such as Yarrow close to some of the hedges/ boundaries. It has previously been used for grazing livestock including sheep. The sward is generally around 0.2 m high and is dominated by Perennial Rye-grass with frequent Yorkshire-fog, locally frequent Cock's-foot, occasional to frequent Creeping Buttercup, occasional *Agrostis capillaris* (Common Bent), *Ranunculus acris* (Meadow Buttercup), White Clover and lesser amounts of *Cirsium arvense* (Creeping Thistle), *Cirsium vulgare* (Spear Thistle) and *Rumex obtusifolius* (Broad-leaved Dock).



Part of the field at *Target Note 9*.

- 3.2.15 Preparations for tree planting have recently been undertaken with an excavator in all of the fields. This includes extensive lines of excavated pit and mounds.



The easternmost field from near the northern boundary looking south.



Part of the southwestern field.

- 3.2.16 A small number of grassland fungi were recorded at *Target Note 12a* including *Clavaria fragilis*, *Clavulinopsis* sp. and *Hygrocybe* (etc) sp.
- 3.2.17 Locally on the hedge bank at *Target Note 14b* and at *Target Note 5* there are very small fragments of slightly more species-rich grassland which suggest a mildly acidic substrate. It contains frequent Common Bent and occasional *Rumex acetosella* (Sheep's Sorrel).
- 3.2.18 There is a low slope along the edge of the field adjacent to Hafod Road (*Target Note 15*). This slope supports small patches of moderately species-rich neutral grassland. It is approximately 1.5 m wide and contains a range of forbs including Yarrow, *Hypochaeris radicata* (Cat's-ear), *Crepis vesicaria* (Beaked Hawk's-beard), *Pilosella officinarum* (Mouse-ear-hawkweed), *Potentilla reptans* (Creeping Cinquefoil), *Trifolium dubium* (Lesser Trefoil), *Ranunculus bulbosus* (Bulbous Buttercup), *Lathyrus pratensis* (Meadow Vetchling), *Centaurea nigra* (Common Knapweed) and *Erigeron acer* (Blue Fleabane).



The boundary adjacent to Hafod Road showing the low slope at *Target Note 15*.

Waterbodies

- 3.2.19 There is a large, fairly shallow waterbody located in a low-lying depression at *Target Note 17*. The depth is unknown but is greater than 0.3 m. The banks have a gentle slope of 5-15°. The adjacent improved grassland sward extends down the banks into the margins. The margins are dominated by *Agrostis stolonifera* (Creeping Bent) with locally frequent *Glyceria fluitans* (Floating Sweet-grass) and *Ranunculus sceleratus* (Celery-leaved Buttercup) throughout. *Alopecurus geniculatus* (Marsh Foxtail) and *Callitriche* sp. (Water-starwort) are also locally frequent in the margins with small amounts of *Ranunculus* sp. (Water-crowfoot) and *Persicaria maculosa* (Redshank).
- 3.2.20 Many plants typical of the improved grassland were submerged at the time of the survey suggesting a variable water level.



The waterbody at *Target Note 17* (above and below).



Other Habitat

- 3.2.21 There is an old pile of logs/ brash at *Target Note 7* and a brash pile at *Target Note 11*.
- 3.2.22 The pond at *Target Note 2* is located outside the survey site. The area of water appears to be very much reduced compared with its possible historic extent. The current water surface measures approximately 10 m by 8 m and is shallow (approximately 0.2 m). The water is located in a much larger and deep pit and is likely to have been much larger and deeper in the past. It may dry out at certain times of the year. It is full of branches, woody debris and leaves. There are small stands of *Phalaris arundinacea* (Reed Canary-grass) and Creeping Bent on the exposed margins but otherwise there is no marginal vegetation. No aquatic

vegetation is visible. It is surrounded by mature Crack Willow, Ash and Field-maple trees with mature scrub. It is likely to be well shaded.



The pond at Target Note 2.

Flora

- 3.2.23 One notable plant was recorded during the survey: Blue Fleabane. Williams (2021) includes a table of Locally Near Scarce (LNS) plants, that is species recorded in 11-30 1km squares. Blue Fleabane is a LNS plant.
- 3.2.24 None of the plant records provided by Cofnod are from within the survey site and there are no particularly notable records of relevance from the 1 km search area.
- 3.2.25 One species of plant listed in *Schedule 9* of the *Wildlife and Countryside Act 1981* was recorded during the survey: *Cotoneaster* sp. (*Target Note 8*). It should be noted that the actual species of *Cotoneaster* present was not confirmed.
- 3.2.26 Several species of plant listed in *Schedule 9* of the *Wildlife and Countryside Act 1981* have been recorded from the 1 km search area. Cofnod provided records of six *Schedule 9* species: *Lagarosiphon major* (Curly Waterweed), *Heracleum mantegazzianum* (Giant Hogweed), *Fallopia japonica* (Japanese Knotweed), *Crassula helmsii* (New Zealand Pigmyweed), *Lamium galeobdolon* subsp. *argenteum* (Variegated Yellow Archangel) and *Cotoneaster horizontalis* (Wall Cotoneaster). None of these records is from within the survey site. The Giant Hogweed record is dated 2017 and is from Dennis of Ruabon, very close to the survey site.

3.3 Species/ Species Groups

Badgers

- 3.3.1 No setts were recorded within the survey site. Opportunities for sett excavation within the survey site are limited to the various hedge bases, patches of scrub and the plantation at *Target Note 18*.

- 3.3.2 A small amount of evidence of Badger activity was recorded from the survey site as follows:
- *Target Note 4.* Occasional evidence of Badger foraging was recorded adjacent to this field boundary. A feint path was noted in places.
 - *Target Note 19.* Two clumps of old Badger hairs on barb-wire at the bottom of the fence.
- 3.3.3 A feint animal path was recorded at *Target Note 13*. It is likely to be used by Badgers but no evidence of use by Badgers was recorded. There is a breach beneath the fence out onto the lane at the southern end of the survey site.
- 3.3.4 A feint animal path was recorded at *Target Note 23*. No evidence of use by Badgers was recorded.
- 3.3.5 Area 1 is largely characterised by amenity grassland with some hard-standing; Area 2 is characterised by agriculturally improved pasture fields. This habitat is of moderate to high potential value for foraging.
- 3.3.6 Cofnod provided two records of Badger from the 1 km search area, both of which refer to setts. One of these setts appears to be located within the Country Park approximately 207 m away from the survey site at its closest point. This record is dated 2001. The other sett record is from further away and on the opposite side of the A483 road.

Bats

Trees within the Survey Site

- 3.3.7 The individual trees within the survey site were not subject to a detailed assessment for their potential value to roosting bats. The trees within the survey site are briefly described above.
- 3.3.8 The trees at *Target Note 25* are unlikely to contain features of potential value for roosting bats due to their size/ age.
- 3.3.9 A small number of the trees within the boundaries in Area 2 contain some features of potential value for roosting bats. Examples are as follows:
- *Target Note 10a.* The two largest Wild Cherry trees at this location contain some features of potential value for roosting bats including splits in the bark/ trunk.
 - *Target Note 14a.* The Sycamore at this location may have rot cavities in the trunk and there are several holes visible higher up.
 - *Target Note 16a.* The semi-mature Ash tree is covered in dense Ivy.

Foraging/ Commuting Habitat.

- 3.3.10 Area 1 includes clumps of semi-mature trees that are contiguous with Bonc Yr Hafod Country Park to the west. This Country Park includes large areas of broad-leaved plantation woodland, scrub, waterbodies and species-rich grassland. This habitat as a whole provides habitat of moderate or high potential value for foraging/ commuting bats.
- 3.3.11 Area 2 largely consists of three agriculturally improved grassland fields. These fields are likely to provide habitat of low potential value for foraging/ commuting bats. Linear features such as the various hedges/ lines of shrubs and the tree/ shrub-lined track along the southern boundary provide habitat of moderate value for foraging/ commuting bats. Some of these features are linked with a wider hedgerow network beyond the survey site as well as some blocks of woodland. The A483 road may limit connectivity to the east. The waterbody at *Target Note 17* is also likely to be of moderate potential value.

3.3.12 Cofnod provided a small number of records of four species of bat for within the 1 km search area as well as 'Myotis Bat Species'. The records include Brown Long-eared Bat (*Plecotus auritus*), Common Pipistrelle (*Pipistrellus pipistrellus*), Daubenton's Bat (*Myotis daubentonii*) and Soprano Pipistrelle (*Pipistrellus pygmaeus*). Most of these records are from the Great Crested Newt mitigation area to the west of Dennis of Ruabon and are dated 2008. The records concern small numbers of bats recorded using a hand-held bat detector.

3.3.13 There is one record dated 2010 for Brown Long-eared Bat droppings in a roof void. This location is approximately 609 m north-north-west of the survey site at its closest point.

Great Crested Newts

3.3.14 There is one waterbody within the survey site (*Target Note 17*) which is described above. The water source for this waterbody is unknown but it may receive surface water from the road to the west. The water quality is also unknown. There is a moderate level of use by waterbirds including loafing gulls. It provides habitat that could be used by Great Crested Newts but is of sub-optimal quality.

3.3.15 The pond at *Target Note 2* which is located outside the survey site is also described above. It is suspected that this feature may be dry for large parts of the year though this cannot be confirmed. It is unlikely to be of value for breeding purposes but could be used by foraging Great Crested Newts.

3.3.16 An initial review of the OS map 1:25, 000 scale and relevant internet-based mapping including aerial photography⁴ indicates that there are a very large number of waterbodies within approximately 500 m of the survey site (excluding ditches). Most of these waterbodies are within the SSSI/ SAC and have been created for the benefit of Great Crested Newts. There is one pond directly adjacent to the northern boundary of the survey site (to the east of Hafod Road) – *Target Note 2*. Cofnod did not provide any records for amphibians from either this pond or the waterbody within the survey site.

3.3.17 The less frequently managed grassland, clumps of trees and tall ruderals within Area 1 provide terrestrial habitat of moderate potential value. The areas of hard-standing are not of any particular value.

3.3.18 The improved grassland fields in Area 2 provide terrestrial habitat of low potential value at most. Most of the hedge bases are quite open as livestock has previously had access to these areas. Such defunct hedges also provide habitat of low potential value. Habitat of greater potential value is provided by the hedgerow at *Target Note 6*, the scrub around the pond at *Target Note 2*, the scrub and hedges along the track by the southern boundary and the plantation/ scrub at *Target Note 18*. Potential refugia/ hibernacula are found throughout the survey site and include small mammal burrows, spaces around shrub/ tree roots and the log/ brush piles at *Target Notes 7 and 11*.

3.3.19 Cofnod provided a very large number of records for Great Crested Newt mostly from the SSSI/ SAC including the Country Park, as well as from Hafod Quarry. Most of these records are from the west side of the Country Park or to the south although some records are also from the east side. Two of the ponds within the Country Park from which there are Great Crested Newt records (up to and including 2021) are located approximately 96 m to the west

⁴ <https://www.google.co.uk/maps/place/Johnstown,+Wrexham/@53.0101386,-3.0265534,2753m/data=!3m1!1e3!4m5!3m4!1s0x487ac7f616f04713:0xb56ea3741ff724e4!8m2!3d53.010368!4d-3.044433>

of the survey site at its closest point. The SSSI/ SAC is known to support a large/ exceptional population.

- 3.3.20 Cofnod provided a very large number of records for Palmate Newt (*Lissotriton helveticus*), Smooth Newt (*Lissotriton vulgaris*), *Lissotriton* sp., Common Frog (*Rana temporaria*) and Common Toad (*Bufo bufo*) mostly from the SSSI/ SAC including the Country Park, as well as from Hafod Quarry.

Reptiles

- 3.3.21 The less frequently managed grassland, clumps of trees and tall ruderals within Area 1 provide potential terrestrial habitat of low value for reptiles. However, this habitat is directly linked with Bonc Yr Hafod Country Park which includes habitat of moderate/ high potential value. The improved grassland fields in Area 2 provide terrestrial habitat of negligible/ low potential value. The bases of hedgerows, the waterbody at *Target Note 17* and the patches of scrub edge along the access track by the southern boundary may provide small fragments of greater potential value.
- 3.3.22 Cofnod provided a number of records of Grass Snake (*Natrix helvetica*) from the Great Crested Newt mitigation area to the west of Dennis of Ruabon. These records are dated between 2002 and 2012. No other reptile records were provided.

Birds

- 3.3.23 Twenty-six species of bird were recorded during the Extended Phase 1 Habitat Survey either within the survey site or flying over it. The Black-headed Gull (*Chroicocephalus ridibundus*), Herring Gull (*Larus argentatus*), Lesser Black-backed Gull (*Larus fuscus*), Snipe (*Gallinago gallinago*), Magpie (*Pica pica*), Long-tailed Tit (*Aegithalos caudatus*), Coal Tit (*Periparus ater*), Fieldfare (*Turdus pilaris*)⁵, Redwing (*Turdus iliacus*), Meadow Pipit (*Anthus pratensis*), Chaffinch (*Fringilla coelebs*), Greenfinch (*Chloris chloris*) and Dunnock (*Prunella modularis*) are priority species⁶. There are no features/ habitat that could be used by the three species of Gull or Snipe for nesting within the survey site. Magpie, Coal Tit, Long-tailed Tits, Dunnocks, Chaffinches and Greenfinches could nest in the hedges/ shrubs/ trees/ dense vegetation. The Fieldfare and Redwing are winter visitors only.
- 3.3.24 The survey site is unlikely to be of particular value for ground-nesting species such as the Meadow Pipit (and Skylark). The grassland sward is not varied or tussocky and contains few plant species. Until recently it was also grazed.
- 3.3.25 The habitat within parts of the survey site (around the waterbody at *Target Note 17*) could be of potential value for Lapwing (*Vanellus vanellus*). It is possible that this species could breed at this site although the habitat is of sub-optimal quality at best. Furthermore, due to the uniformity of the sward should they nest at this site, they would be especially vulnerable to both ground and aerial predators. Previous stocking rates may also have been prohibitive. Cofnod did not provide any records from the survey site or close to it. The survey site is unlikely to be of particular value for this species (for nesting).
- 3.3.26 The survey site provides nesting opportunities for species of bird associated with trees, scrub/ shrubs and hedges. The margins of the waterbody at *Target Note 17* may provide

⁵ The Fieldfare and Redwing are listed on *Schedule 1* of the *Wildlife and Countryside Act 1981*.

⁶ As defined in CIEEM (2017a).

some opportunities for a small number of nesting birds particularly now grazing stock have been removed.

- 3.3.27 Cofnod provided a large number of bird records from within 1 km of the survey site (though none from within it) largely with four-figure grid references. Records of possible relevance to the survey site include Barn Owl (*Tyto alba*), Black-headed Gull, Blackcap (*Sylvia atricapilla*), Blue Tit (*Cyanistes caeruleus*), Bullfinch (*Pyrrhula pyrrhula*), Buzzard (*Buteo buteo*), Chiffchaff (*Phylloscopus collybita*), Coal Tit, Dunnock, Fieldfare, Goldcrest (*Regulus regulus*), Goldfinch (*Carduelis carduelis*), Great Spotted Woodpecker (*Dendrocopos major*), Great Tit (*Parus major*), Green Woodpecker (*Picus viridis*), Greenfinch, Herring Gull, House Sparrow (*Passer domesticus*), Lapwing, Lesser Black-backed Gull, Lesser Redpoll (*Acanthis cabaret*), Long-tailed Tit, Mallard (*Anas platyrhynchos*), Mistle Thrush (*Turdus viscivorus*), Pied Wagtail (*Motacilla alba yarrellii*), Raven (*Corvus corax*), Red Kite (*Milvus milvus*), Redwing, Skylark (*Alauda arvensis*), Song Thrush (*Turdus philomelos*), Sparrowhawk (*Accipiter nisus*), Starling (*Sturnus vulgaris*), Stock Dove (*Columba oenas*), Swallow (*Hirundo rustica*), Swift (*Apus apus*), Treecreeper (*Certhia familiaris*), Whitethroat (*Curruca communis*), Willow Warbler (*Phylloscopus trochilus*) and Yellowhammer (*Emberiza citrinella*). Some of these species could potentially nest within the survey site.

Other Species

- 3.3.28 Cofnod provided a small number of records for Hedgehog (*Erinaceus europaeus*) from Johnstown. The habitat within the survey site is suitable for this species. The base of hedges/ areas of scrub, etc could be used for hibernation.
- 3.3.29 Cofnod provide a small number of records for American Mink (*Neovison vison*) and two historic records for Water Vole (*Arvicola amphibius*); none are of particular importance to this assessment.
- 3.3.30 Cofnod provided a small number of records of bees, butterflies and other invertebrates. Those of some possible relevance to this assessment include Dingy Skipper (*Erynnis tages*), Grayling (*Hipparchia semele*), Purple Hairstreak (*Favonius quercus*), Silver-washed Fritillary (*Argynnis paphia*), Small Heath (*Coenonympha pamphilus*), Wall (*Lasiommata megera*), White-letter Hairstreak (*Satyrion w-album*), Alder Signal (*Stathmopoda pedella*), Alder Leaf Beetle (*Agelastica alni*) and Scarce Blue-tailed Damselfly (*Ischnura pumilio*). Most of these butterflies, moth, beetle and damselfly have been recorded from the Country Park.
- 3.3.31 Cofnod provided one record of Eel (*Anguilla anguilla*) from the Country Park dated 2016.

4 EVALUATION, ASSESSMENT AND RECOMMENDATIONS

4.1 Introduction

4.1.1 Brief details regarding the proposal are provided in *Section 1.4*. An assessment of ecological issues based on the information provided is detailed below and considers:

- potential ecological constraints relevant to the proposal;
- further survey requirements; and
- potential mitigation/ compensation measures along with opportunities for ecological enhancement.

These are dealt with in turn for habitats and flora, and specific species groups in the section below. Potential impacts have been considered with reference to the information provided only. This assessment considers the proposed work site and immediately surrounding area.

4.1.2 This assessment only considers potential impacts associated with the proposed hard-works that are the subject of the planning application. Similarly, avoidance/ mitigation measures are linked with such perceived impacts. However, where necessary, proposed compensation/ enhancement measures adopt a wider view of the project and consider the proposed habitat creation (that is largely not the subject of the planning application).

4.1.3 The project has received consent from NRW under the *Environmental Impact Assessment (Forestry) (England and Wales) Regulations 1999*. This has enabled preparatory works for tree and shrub planting to be commenced (in November 2022).

4.2 Evaluation, Assessment and Recommendations

Designated Sites

4.2.1 No statutory or non-statutory designated sites would be directly impacted by the proposed work.

4.2.2 Bonc Yr Hafod Country Park is located immediately to the west of Area 1 and is included in the Johnstown Newt Sites SAC/ Stryt Las a'r Hafod SSSI. Due to the nature of the proposal, the habitat within the survey site, and the reasons for designation of this protected site, no significant indirect (adverse) impacts are anticipated. However, the following potential indirect impacts should be considered:

- The potential for killing/ injuring/ disturbing individual Great Crested Newts.
- The potential for damaging small areas of terrestrial habitat (outside the SAC/ SSSI) that might be used by Great Crested Newts.
- The potential for an increase in visitor numbers accessing the SAC/ SSSI and the associated potential undesirable impacts (e.g., disturbance of wildlife, introduction of non-native species/ fish/ diseases, pollution).

4.2.3 Issues relating to Great Crested Newts are considered further below. As the land is owned by the National Trust the new ponds to be created would be the subject of ongoing nature conservation management that should benefit Great Crested Newts (as well as controlling any non-native species that may establish). Overall, the proposed habitat creation and ongoing management of suitable habitat is likely to have a positive impact in the medium-term.

- 4.2.4 The survey site and surrounding area is identified in LPG 35 as one of the 'Key Ecological Corridors' connecting the SAC and the wider countryside. It further states that these Corridors '*...are of extremely high importance when considering the long-term viability of the GCN population of the Special Sites*'. The proposal to create several new waterbodies along with potential high value terrestrial habitat within this Corridor could be of particular importance for the population(s) around Bonc Yr Hafod as well as enhancing habitat connectivity for the metapopulation.
- 4.2.5 With specific regard to the SAC and recreation LPG 35 states:
'The intensification of residential development within the Johnstown area, including the cumulative effect from small scale residential development is placing additional pressures on the FCS⁷ of the SAC. There are no specific studies which demonstrate that recreational pressure has an adverse impact on amphibian populations, but casual observations indicate a potential link, and in the absence of evidence local authorities are required to be precautionary in their response'.
- 4.2.6 During the 'operation' phase of the proposed development additional visitors may be attracted to the site. An increase in visitor numbers using the SAC can be associated with adverse impacts including the introduction of non-native invasive species, diseases and fish; damaging anti-social behaviour; and disturbance. However, it is equally possible that provision of this additional greenspace may reduce use of the Country Park or at least even out use levels.
- 4.2.7 As the existing car park will not be expanded this will serve as a limiting factor to visitor numbers at any given time. It may be necessary to install measures in order to discourage verge or other inappropriate parking. It is also the intention that many visitors to the site would either walk or cycle.
- 4.2.8 Bonc Yr Hafod Country Park is already well served by a network of made-surface paths. Most visitors to the Country Park are likely to keep to these paths. It is likely that this would also be the case in the Commemorative Woodland.
- 4.2.9 LPG 35 details likely mitigation measures dependent on predicted impacts. With regards recreational pressure it refers to the provision of informal recreational areas but does not mention commuted sums to address such issues. The proposal provides an additional 9.5 hectares of open space including a number of surfaced paths.
- 4.2.10 At present there is no known data to confirm the existing state of these issues, and therefore there is no baseline against which to measure potential future impacts. Similarly, there is no data to disprove/ prove that a (possible) increase in recreational pressure might exacerbate any of these issues. It is suggested that visitor numbers at the site and how the site is used should be monitored in the future. This is likely to need to be in conjunction with WCBC.
- 4.2.11 No non-statutory designated sites or ancient woodland sites would be directly impacted.

⁷ Favourable Conservation Status.

Habitat

4.2.12 The survey site includes the following habitat resources:

- Broad-leaved plantation woodland;
- Individual trees and shrubs;
- Patches of dense scrub;
- Hedgerows/ lines of shrubs;
- Improved grassland;
- Amenity grassland;
- Tall ruderals;
- A waterbody;
- A dry ditch; and
- Hard-standing.

4.2.13 Due to the size, quality and geographical location of most of the habitat resources listed above they are considered to be of no more than site value⁸. Habitat features of greater value are considered below.

4.2.14 The survey site contains a small number of semi-mature/ mature trees. WCBC (2015) does not contain criteria specific to individual trees. However, areas of lowland wood pasture and parkland can be considered for selection based on the presence of '*At least 5 over mature/ veteran trees or individuals that are estimated to be at least 200 years old which exhibit veteran tree characteristics*'. It is considered unlikely that many, if any, of the trees within the site would meet this description. However, this resource does represent a collection of individuals, some of moderate age, that are perhaps of local value.

4.2.15 'Hedgerows' is a priority habitat listed on *Section 7 of the Environment (Wales) Act 2016*. This priority habitat covers all hedgerows consisting predominantly (*i.e.*, 80% or more cover) of at least one woody UK species (Biodiversity Reporting & Information Group, 2011). The hedgerow at *Target Note 6* is moderately species-rich in terms of the woody component and could potentially qualify as being 'important' in accordance with the 'ecological criteria' established in the *Hedgerow Regulations 1997*.

4.2.16 With the further exception of the hedgerows at *Target Notes 20 and 22* the *Hedgerow Regulations* are unlikely to be applicable to the many defunct hedgerows across the survey site. It should be noted that it is not possible to confirm whether any hedgerow could be considered important (using ecological criteria only) under the *Hedgerow Regulations 1997* without further survey (or indeed is excluded from the *Regulations*).

4.2.17 The draft Wrexham Wildlife Sites selection criteria (WCBC 2015) indicates a minimum length of 50 m for 'Ancient and/ or species-rich hedgerows' to be considered. Qualification for this definition is based on the species richness of the woody component and the presence of 'ancient woodland indicator' species. Further survey would be required to determine whether these criteria are met. Similarly, these features could qualify based on the species they support but further survey would be required to confirm this. In the absence of such survey data, it is considered that the hedges/ defunct hedges across the survey site are of local value.

4.2.18 'Ponds' is listed as a priority habitat on *Section 7 of the Environment (Wales) Act 2016*. The waterbody at *Target Note 17* appears to support a rather limited vegetation community.

⁸ In accordance with CIEEM (2018).

However, it does appear to be of some value for feeding/ loafing birds. Other (potentially notable) species that this waterbody may support cannot be confirmed without further survey. This waterbody is likely to be of at least local value (and may be of greater value depending on the species it supports).

4.2.19 No further survey of the habitat within the survey site is currently considered necessary at this time. The proposed hard-works (including pond/ scrape creation) would result in the permanent loss of the following:

- A short section (approximately 70 m) of the hedgerow at *Target Note 6* where visibility splays are to be provided at the Hafod Road crossing.
- A small area of amenity grassland at *Target Note 24* to provide a 2 m wide foot-way between the car park and the Hafod Road crossing. It is possible that a small number of young trees may need to be felled at this location.
- A small combined area of agriculturally improved grassland across the survey site including accessible paths (approximately 4521 m²), new ponds/ scrapes (approximately 2400 m²), the installation of benches, picnic tables, bike racks, etc.

It is assumed that where new footpaths cross existing boundary lines (other than at the Hafod Road crossing) they will be aligned so that they make use of existing gaps in these features. Some minor amendments of the alignment may be required to achieve this. As such it would not be necessary to remove any shrubs/ trees at these locations, although some pruning may be required.

4.2.20 The stretch of internal path shown to the south of the waterbody at *Target Note 17* would cross an area that was flooded at the time of the survey. As the paths are to be installed in the summer/ autumn 2023 it is assumed that this work would be completed when this area is not flooded. It is not currently known whether this path will be installed to the same specification as the others (and allowed to be seasonally flooded), or whether it will be raised in some way/ a boardwalk used. The installation of this path would modify part of the margin of this waterbody, an area of improved grassland that is seasonally flooded. Of greater importance will be ensuring that this waterbody is served by a sustainable (clean) water source and that the outflow is not hindered by the path.

4.2.21 The loss/ alteration of this habitat would not result in any significant impacts.

4.2.22 General best practice measures should be implemented during the construction works to avoid any indirect impacts (e.g., dust, diffuse pollution, etc) on adjacent habitat, particularly the waterbody at *Target Note 17*. The general advice contained in the Guidance for Pollution Prevention (GPP) leaflets produced by SEPA, EA and the Environment and Heritage Service (Northern Ireland) should be adhered to, particularly the following:

- GPP1: Understanding Your Environmental Responsibilities - Good Environmental Practices.
- GPP5: Works and Maintenance in or Near Water.
- PPG6: Working at Construction and Demolition Sites.

4.2.23 The location of the small number of grassland fungi recorded at *Target Note 12a* will be retained as this has been identified as the 'ridge and furrow meadow'.

4.2.24 The proposed habitat creation includes the following:

- Extensive tree planting (secondary woodland).
- The planting of an orchard.
- Planting of new stretches of hedgerow and re-planting of that to be lost at the Hafod Road crossing.
- The creation of more botanically-rich grassland.
- Wetland/ reedbed creation around the existing waterbody.
- The creation of several new ponds/ scrapes.

4.2.25 These new habitats are likely to be of benefit to a range of wildlife and in the short to medium-term be of much greater value than that offered by the existing agricultural fields. Technical Advice Note 5 (Nature Conservation and Planning) (Welsh Assembly Government, 2009) seeks developments to achieve net biodiversity gain. The proposal would satisfy this requirement.

4.2.26 The background data search highlighted several notable species (other than the legally protected species considered further below) that have been recorded from the area that the habitat creation could target. This could easily be achieved through nuanced amendments to the proposed habitat creation. Such species to target could include the following:

- Black-poplar. There is a record for *Populus nigra* ssp. *betulifolia* (Black-poplar) near Johnstown. This tree could be planted as part of areas of 'wet woodland' and/ or as specimen trees. All planting stock should be of ideally locally native provenance but as a minimum certified British native origin (Local Seed Zone 304). This would also be appropriate for biosecurity reasons.
- Dingy Skipper. This butterfly has been recorded from Bonc Yr Hafod and other nearby sites. Some of the grassland to be created could partly target this species by including larval food-plants – *Lotus corniculatus* (Common Bird's-foot-trefoil) and *Lotus pedunculatus* (Greater Bird's-foot-trefoil) – as well as a range of potential nectar sources. An appropriate management regime should also be adopted.
- White-letter Hairstreak. Various species of Elms are the larval host-plant for this species. It is recommended that Wych Elm is included in the tree/ shrub and hedgerow planting. However, Wych Elm is known to suffer from Elm disease in this area. It is therefore considered appropriate in this instance to include a disease-resistant elm (DRE) cultivar within the planting (as well as Wych Elm). Any planting of DREs must be in accordance with the Butterfly Conservation guidance note⁹. This guidance note also lists the cultivars known to support White-letter Hairstreak.
- Purple Hairstreak. Native Oak trees should be included in the planting.
- Alder Signal (micromoth) and Alder Leaf Beetle. Some *Alnus glutinosa* (Alder) should be included in the tree planting particularly in wetter parts of the site.
- Bees. The creation of bee banks¹⁰ could be considered in appropriate locations within the site. Material excavated from the new ponds could be used.
- Hedgehog. The material from the removed stretch of hedgerow should be used to create brush piles in quiet corners of the site, away from roads.

⁹ <https://butterfly-conservation.org/sites/default/files/2018-12/Planting%20of%20Disease-Resistant%20Elm%20Cultivars%20for%20Lepidoptera%20and%20the%20Biosecurity%20Implications.pdf>

¹⁰ <https://cdn.buglife.org.uk/2020/04/Bee-bank-booklet-4.pdf>

To maximise the benefit of the proposal for the above species and other wildlife, a detailed Habitat Creation and Management Plan should be produced.

Flora

- 4.2.27 One notable species of plant was recorded from the survey site: Blue Fleabane. This plant is listed as Locally Near Scarce in Williams (2021). This plant is listed as being of Least Concern in the most recent Vascular Plant Red Data List for Wales (Dines 2008).
- 4.2.28 This plant was recorded from a low bank immediately adjacent to Hafod Road (*Target Note 15*). Should the proposed hedge be planted adjacent to the Hafod Road boundary it is possible that this species may be lost from the survey site. This is not considered to be a significant impact.
- 4.2.29 It is illegal to plant or otherwise cause to grow in the wild any plant listed in *Part II of Schedule 9 to the Wildlife and Countryside Act 1981* (as amended). The *Schedule 9* list of animal and plant species has been amended by the *Wildlife and Countryside Act 1981 (Variation of Schedule 9)(England and Wales) Order 2010*¹¹. *Section 14 (1)* covers spreading the species or transferring polluted ground material from one area to another.
- 4.2.30 One species of plant listed on *Schedule 9* was recorded from the survey site: Cotoneaster. A single small shrub was recorded at *Target Note 8*. This location would not be directly affected by the proposed works.
- 4.2.31 A number of *Schedule 9* plants have been recorded from the area surrounding the survey site. Basic biosecurity measures should be implemented throughout any works at this site. Best practice guidance is available on the Natural Resources Wales (NRW) website¹².

Fauna

Badger

- 4.2.32 No setts were recorded within the survey site and opportunities for sett excavation within the survey site are limited. A sett has previously been recorded from Bonc Yr Hafod Country Park.
- 4.2.33 A small amount of evidence of Badger activity was recorded from the survey site. It is possible that Badgers could forage throughout the survey site. The grassland throughout the survey site is of moderate to high potential value for foraging.
- 4.2.34 No particular impacts on Badgers are anticipated due to the proposed hard-works. As Badgers are known to be present in the area all site workers should maintain a watching brief for potential setts. If a large animal hole is found, and workers are unsure whether it is used by Badgers, all work within at least 30 m should immediately cease and a suitably qualified ecologist be contacted for further advice.
- 4.2.35 A sett could be excavated subsequent to the completion of this survey. If the proposed work is not implemented within 12 months of the Extended Phase 1 Habitat Survey the site should be re-surveyed by a suitably qualified ecologist to check for any setts.

¹¹ <http://www.nonnativespecies.org/index.cfm?pageid=67>

¹² <https://naturalresources.wales/guidance-and-advice/business-sectors/forestry/tree-health-and-biosecurity/how-to-practise-biosecurity-in-woodlands-keep-it-clean/?lang=en>

Bats

- 4.2.36 All of the semi-mature/ mature trees within the survey site will be retained. Some of these trees may contain features of potential value for roosting bats, in particular the Sycamore at *Target Note 14a*. The proposed footpaths near this tree should be aligned as far from it as is possible.
- 4.2.37 If it becomes necessary to fell any (semi-mature/ mature) trees, they should be subject to an inspection (prior to felling/ pruning) by a licensed bat ecologist to determine whether they contain any features of potential value for roosting bats, and, if present, whether further survey might be required. Any mitigation measures that may be required can be considered further to the completion of this survey.
- 4.2.38 It may be necessary to remove some young trees in Area 1 due to the link between the car park and Hafod Road crossing.
- 4.2.39 No direct impacts on roosting bats are anticipated due to the proposed hard-works.
- 4.2.40 The agriculturally improved grassland that characterises the fields within Area 2 are of low potential value for foraging/ commuting bats. The various hedges/ shrub lines are of moderate potential value. Nearly all of the existing trees, shrubs and hedges within Area 2 would be retained. A short stretch of the existing hedge adjacent to Hafod Road would be removed and re-planted.
- 4.2.41 The habitat within Area 1 is part of a wider resource (including the remainder of the Country Park) that is of moderate to high potential value for foraging/ commuting bats. The proposed hard-works would result in the loss of a small area of amenity grassland and possibly a small number of young trees.
- 4.2.42 As previously noted, the proposal includes for the creation of a range of habitat types. This is likely to increase the potential foraging/ commuting value of the survey site for bats. The existing linear features are to be retained including 3 m buffers along existing hedges.
- 4.2.43 No external lighting is proposed at the site.
- 4.2.44 As a potential enhancement for roosting bats the installation of a small number of bat-boxes in appropriate places on large trees within the survey site should be considered. Wood-crete boxes such as the Schwegler 2F-DFP¹³ type boxes should be used as well as the Vincent Pro Bat Box¹⁴. They should generally be installed in clusters of three. These boxes should either be installed by a suitably qualified ecologist or otherwise under their instruction.

Great Crested Newts

- 4.2.45 There is one waterbody within the survey site (*Target Note 17*) which provides potential aquatic habitat of sub-optimal quality. The possible use of this waterbody by Great Crested Newts cannot be confirmed without further survey.
- 4.2.46 The pond at *Target Note 2* which is located outside the survey site may be dry for large parts of the year though this cannot be confirmed. It is considered unlikely that Great Crested Newts might use this feature for breeding. The possible use of this waterbody by Great Crested Newts cannot be confirmed without further survey.

¹³ e.g., <http://www.nhbs.com/2f-schwegler-bat-box-with-double-front-panel>

¹⁴ <https://www.nhbs.com/vincent-pro-bat-box>

- 4.2.47 Given that the survey site is located to the immediate east of the Johnstown Newt Sites SAC, that this site contains a number of waterbodies and supports a very large/ exceptional population, Great Crested Newts could potentially be found anywhere within the survey site.
- 4.2.48 The terrestrial habitat within much of the survey site (improved grassland fields) is considered to be of low potential value for Great Crested Newts. Terrestrial habitat of greater potential value includes the less frequently managed grassland, clumps of trees and tall ruderals within Area 1; some of the hedges, scrub and plantation within Area 2.
- 4.2.49 The proposed hard-works would only affect small areas of moderate/ high potential value terrestrial habitat, particularly at the Hafod Road crossing. Given the risk that Great Crested Newts might be found/ disturbed during these works it would be appropriate and prudent to obtain an NRW 'development' licence prior to the commencement of these works. In the first instance NRW should be consulted to confirm that a licence could be obtained without further survey of the waterbodies at *Target Notes 2 and 17*.
- 4.2.50 The licence application would assess the impacts on newts/ their habitat and will propose mitigation/ compensation measures. It will also need to consider in detail maintenance of the Favourable Conservation Status (FCS) of the species in this area both during and after the works. These measures are likely to include:
- The production and implementation of a Reasonable Avoidance Measures (RAMs) Method Statement. The Method Statement will detail methods of working that will minimise any perceived risk to Great Crested Newts. Due to the nature of the proposal the installation of amphibian exclusion fencing is not proposed. The implementation of the RAMs will be organised and overseen by the licensed ecologist. This is likely to include supervision of works in areas of the site where the risk is perceived to be greatest. Hand searches would be undertaken as appropriate during suitable weather conditions. Any amphibians found are likely to be moved to the west side of the Country Park (subject to landowner permission).
 - The proposed RAMs would include a Toolbox Talk by a suitably qualified ecologist that would outline the responsibility of individual contractors (with regards Great Crested Newts and other valued ecological resources). When the work is restricted to the improved grassland or other low risk areas, a watching brief would be maintained by the contractors, with the licensed ecologist retained on standby off-site.
 - The licence application will include a biosecurity risk assessment to be implemented during the works.
 - The provision of a small number of potential refugia/ hibernacula in the wider site to offset any loss of terrestrial habitat.
 - One or more of the new ponds to be created as part of the proposal should be designed so as to specifically benefit Great Crested Newts. The other proposed habitat creation measures are also likely to increase the value of the survey site for this species in the short to medium-term.
- 4.2.51 Subject to granting of, and implementation of, the NRW licence, no significant adverse impact on the Great Crested Newt population is currently anticipated. The creation of new aquatic and terrestrial habitat is likely to result in a positive impact.

Reptiles

- 4.2.52 Habitat of potential value for reptiles is generally limited within the survey site, particularly Area 2. The habitat in Area 1 is of greater value and is contiguous with the remainder of the

Country Park which includes habitat of moderate/ high potential value. Grass Snakes have been recorded from the area and could potentially use the survey site.

- 4.2.53 The risk of the proposed hard-works to individual Grass Snakes is considered to be low. It is recommended that basic Reasonable Avoidance Measures (RAMs) are implemented by a suitably qualified ecologist. This would be undertaken at the same time as the RAMs for Great Crested Newts and be detailed in the Method Statement.
- 4.2.54 Implementation of the Great Crested Newt/ reptile RAMs should only be undertaken when the preceding and following night-time temperature does not fall below 5°C and the day-time temperature is warm.
- 4.2.55 No particular impacts on (individual) reptiles are anticipated.
- 4.2.56 It is likely that the proposed habitat creation works would improve the potential value of the survey site for Grass Snakes in the medium-term, particularly as the ponds become established.

Birds

- 4.2.57 The proposed hard-works would result in the loss of a short stretch of hedgerow at the Hafod Road crossing and possibly some young trees near the car park. No other habitat that is likely to be used by nesting birds will be impacted (by the proposed hard-works). It is considered unlikely that the proposed hard-works would give rise to a significant impact on local bird populations.
- 4.2.58 The impacts due to the proposed woodland planting and habitat creation scheme are not assessed as part of this PEA. However, the proposal will radically change the survey site from a primarily open aspect to a more enclosed feel, with pockets of open habitat. It will also increase the number of people using this area and thereby may increase associated disturbance of wildlife (though patterns of disturbance will be distorted due to the changing habitat).
- 4.2.59 It is currently considered unlikely that the existing habitat is of any particular value for ground-nesting birds. A Cofnod record from 2002 confirmed 13-15 territories of Skylark from the Country Park. It is not known how many pairs the Country Park currently supports but it is likely to have decreased as the plantation woodland has developed. A similar pattern may be followed in the initial stages of tree planting on the survey site. As the survey site becomes more enclosed it is likely to become of less value for ground-nesting birds. However, some ground-nesting species that probably do not currently use the survey site, such as the Willow Warbler, may find suitable opportunities on scrubby edges.
- 4.2.60 The survey site is currently considered to be of value for species of bird associated with trees, scrub/ shrubs and hedges. The proposed planting is likely to increase this value. Again, with more nuanced, targeted prescriptions it may be possible to achieve greater gains and these should be detailed in the Habitat Creation and Management Plan. Some possible options could include:
- Some areas should be planted and maintained as scrub. This habitat is likely to be of greater value (than secondary woodland) for a number of priority species of bird. Appropriate species would include Hawthorn, Blackthorn, Hazel, Dog-rose, *Rosa arvensis* (Field-rose), Holly, *Malus sylvestris* (Crab-apple), and perhaps some *Sambucus nigra* (Elder), etc. The fruiting shrubs would provide a food source for Badgers and other wildlife. Patches of dense *Ulex europaeus* (Gorse) and *Cytisus scoparius* (Broom) could

be created and may benefit the priority bird species Linnet (*Carduelis cannabina*) and Whitethroat as well as pollinators.

- Some patches of low-growing Willow scrub – *Salix caprea* (Goat Willow) and *Salix cinerea* (Grey Willow) – could be created around the waterbody at *Target Note 17*. This should benefit the Reed Bunting, another priority species.
- There are a number of priority bird species that could potentially benefit from the provision of suitable bird-boxes. A number of nest-boxes suitable for the Starling could be installed on larger trees^{15 16} as could a nest-box for the Kestrel (*Falco tinnunculus*)¹⁷
¹⁸.
- Some areas of unmanaged grassland should be retained across the survey site. This habitat would be of value for birds of prey including the Kestrel.

4.2.61 No further survey for birds is deemed necessary (other than a pre-work check should the hard-works be undertaken during the nesting season as detailed below).

4.2.62 The destruction of any bird nests that are in use is illegal. The simplest option to avoid issues arising from the presence of nesting birds is to schedule work that affects nesting habitat (e.g., the removal of trees/ shrubs/ stretches of hedgerow) outside the nesting period (March to August inclusive). Should any occupied nests be found during the hard-works, a buffer zone (determined on the basis of the species concerned and the location of the nest in the context of the surrounding vegetation, but no less than 5 m) would be retained until it can be ascertained that the chicks have left the nest. The buffer zone will be appropriately fenced and signed.

4.2.63 If it is not possible to remove trees/ shrubs/ stretches of hedgerow outside the nesting season all such areas should be checked by a suitably qualified ecologist prior to commencement of works. If any active nests are found at this time a buffer zone as detailed above would be provided.

Other Species

4.2.64 Hedgehogs have been recorded from the area. There are features within the survey site that might be used for hibernation (e.g., the base of the hedge at *Target Note 6*).

4.2.65 The hedge at *Target Note 6* should be carefully cleared under the supervision of a suitably qualified ecologist. The ecologist will undertake hand-searches as necessary. This can be completed at the same time as the Great Crested Newt RAMs.

4.2.66 Any Hedgehog that may be found (when not hibernating) would be moved to a similar, safe location within the Country Park (subject to landowner permission). Ideally, this work should not be undertaken within the hibernation period (October/ November to March/ April). However, if it is necessary to undertake the work at this time periods of cold weather should be avoided. Should a hibernating Hedgehog be found, it should be covered back up and left where it is until the end of the hibernation period.

¹⁵ <https://www.nhbs.com/3s-schwegler-starling-nest-box>

¹⁶ <https://www.nhbs.com/vivara-pro-woodstone-starling-nest-box>

¹⁷ <https://www.rspb.org.uk/birds-and-wildlife/advice/how-you-can-help-birds/nestboxes/nestboxes-for-owls-and-kestrels/kestrel-nestboxes/>

¹⁸ <https://shopping.rspb.org.uk/bird-feeders-boxes-tables/bird-houses-nest-boxes/bird-prey-nest-boxes/kestrel-nest-box.html>

4.2.67 No significant (adverse) impacts on any other species of conservation interest are anticipated.

5 TARGET NOTES

Target Note 1. A defunct, gappy hedge that may be located outside the survey site boundary (to the north of the boundary fence). It largely comprises a line of semi-mature/ mature *Crataegus monogyna* (Hawthorn) to approximately 6-8 m high with a small amount of *Rosa canina* agg. (Dog-rose). It appears to be currently unmanaged. It is located on a low earth bank. *Hedera helix* agg. (Ivy) is locally frequent in the base otherwise it is characterised by species from the adjacent improved grassland.

Target Note 1a. Two mature *Fraxinus excelsior* (Ash) trees, the largest has an approximate diameter at breast height (dbh) of 0.5 m.

Target Note 1b. Several semi-mature/ mature *Salix fragilis* (Crack Willow) trees with approximate dbh's of up to 0.5 m.

Target Note 2. A pond that is located outside the survey site. The area of water appears to be very much reduced compared with its possible historic extent. The current water surface measures approximately 10 m by 8 m and is shallow (approximately 0.2 m). The water is located in a much larger and deep pit and is likely to have been much larger and deeper in the past. It may dry out at certain times of the year. It is full of branches, woody debris and leaves. There are small stands of *Phalaris arundinacea* (Reed Canary-grass) and *Agrostis stolonifera* (Creeping Bent) on the exposed margins but otherwise there is no marginal vegetation. No aquatic vegetation is visible. It is surrounded by mature *Salix fragilis* (Crack Willow), *Fraxinus excelsior* (Ash) and *Acer campestre* (Field-maple) trees with mature scrub. It is likely to be well shaded.

Target Note 3. A defunct, gappy hedge that comprises a line of semi-mature/ mature *Crataegus monogyna* (Hawthorn) to approximately 5-6 m high. It appears to be currently unmanaged and is unfenced. It is located on a low earth bank. The base is characterised by species from the adjacent improved grassland.

Target Note 3a. A semi-mature *Quercus robur* (Pedunculate Oak) with an approximate dbh of 0.5 m and a semi-mature *Prunus avium* (Wild Cherry) with an approximate dbh of 0.4 m.

Target Note 3b. Two semi-mature *Quercus robur* (Pedunculate Oak) trees with approximate dbh's of 0.3 m and 0.5 m.

Target Note 4. Occasional evidence of Badger foraging was recorded adjacent to this field boundary. A faint path was noted in places.

Target Note 5. A defunct, gappy hedge that comprises a line of semi-mature/ mature *Crataegus monogyna* (Hawthorn) to approximately 5-7 m high with locally frequent *Prunus spinosa* (Blackthorn) and a small amount of *Rosa canina* agg. (Dog-rose). It appears to be currently unmanaged and is unfenced. It is located on a low earth bank. The base is characterised by species from the adjacent improved grassland.

Target Note 5a. Semi-mature *Quercus robur* (Pedunculate Oak) trees with approximate dbh's of 0.3 m and 0.5 m.

Target Note 5b. A semi-mature *Acer pseudoplatanus* (Sycamore) tree with two main stems, the largest of which has an approximate dbh of 0.5 m.

Target Note 6. The hedge adjacent to Hafod Road is managed to approximately 1.7-2 m high and 1.7 m wide. It contains abundant *Crataegus monogyna* (Hawthorn) and *Prunus spinosa* (Blackthorn) with occasional *Rosa canina* agg. (Dog-rose) with lesser amounts of *Sambucus nigra* (Elder), *Ulmus glabra* (Wych Elm), *Ilex aquifolium* (Holly), *Corylus avellana* (Hazel), *Acer campestre* (Field-maple), *Acer pseudoplatanus* (Sycamore) and *Fraxinus excelsior* (Ash). It is partly located on a low earth bank. The base is largely dominated by *Hedera helix* agg. (Ivy). *Geum urbanum* (Wood Avens), *Mercurialis perennis* (Dog's Mercury) and *Dryopteris filix-mas* (Male-fern) were also noted.

Target Note 7. An old pile of logs/ brash.

Target Note 8. One small shrub of *Cotoneaster* sp. in the hedge.

Target Note 9. An agriculturally improved grassland field that is typical of the survey site. It is grass dominated with few forbs. There are a few more forbs such as *Achillea millefolium* (Yarrow) close to some of the hedges/ boundaries. It has previously been used for grazing livestock including sheep. The sward is generally around 0.2 m high and is dominated by *Lolium perenne* (Perennial Rye-grass) with frequent *Holcus lanatus* (Yorkshire-fog), locally frequent *Dactylis glomerata* (Cock's-foot), occasional to frequent *Ranunculus repens* (Creeping Buttercup), occasional *Agrostis capillaris* (Common Bent), *Ranunculus acris* (Meadow Buttercup), *Trifolium repens* (White Clover) and lesser amounts of *Cirsium arvense* (Creeping Thistle), *Cirsium vulgare* (Spear Thistle) and *Rumex obtusifolius* (Broad-leaved Dock).

Preparations for tree planting have recently been undertaken with an excavator in all of the fields. This includes extensive lines of excavated pit and mounds.

Target Note 10. A defunct, gappy hedge that comprises a line of semi-mature/ mature *Crataegus monogyna* (Hawthorn) and *Prunus spinosa* (Blackthorn) to approximately 8 m high with small amounts of *Rosa arvensis* (Field-rose), *Ilex aquifolium* (Holly) and *Corylus avellana* (Hazel). It appears to be currently unmanaged. A new fence has been installed on the southern side. The base contains abundant *Galium aparine* (Cleavers) and locally frequent *Rubus fruticosus* agg. (Bramble) or is characterised by species from the adjacent improved grassland.

Target Note 10a. Three semi-mature/ mature *Prunus avium* (Wild Cherry) trees with approximate dbh's of 0.25-0.5 m. The two large trees contain some features of potential value for roosting bats including splits in the bark/ trunk.

Target Note 11. A brash pile.

Target Note 12. A defunct hedge/ line of semi-mature *Crataegus monogyna* (Hawthorn) to approximately 6 m high. It is located outside the survey site.

Target Note 12a. A small number of grassland fungi were recorded in this area including *Clavaria fragilis*, *Clavulinopsis* sp. and *Hygrocybe* (etc) sp.

Target Note 13. A feint animal path. No evidence of use by Badgers was recorded. There is a breach beneath the fence out onto the lane at the southern end of the survey site.

Target Note 14. A defunct, gappy hedge that comprises a line of semi-mature/ mature *Crataegus monogyna* (Hawthorn) to approximately 6-8 m high with small amounts of *Sambucus nigra* (Elder) and *Rosa canina* agg. (Dog-rose). It contains two young *Quercus robur* (Pedunculate Oak) trees. It appears to be currently unmanaged and is unfenced. It is located on a low earth bank. The base is characterised by species from the adjacent improved grassland.

Target Note 14a. A mature *Acer pseudoplatanus* (Sycamore) tree with an approximate dbh of 0.8 m. It may have rot cavities in the trunk and there are several holes visible higher up.

Target Note 14b. Locally on the hedge bank here and at *Target Note 5* there are very small fragments of slightly more species-rich grassland which suggest a mildly acidic substrate. It contains frequent *Agrostis capillaris* (Common Bent) and occasional *Rumex acetosella* (Sheep's Sorrel).

Target Note 15. There is a low slope along the edge of the field adjacent to Hafod Road. This slope supports small patches of moderately species-rich neutral grassland. It is approximately 1.5 m wide and contains a range of forbs including *Achillea millefolium* (Yarrow), *Hypochaeris radicata* (Cat's-ear), *Crepis vesicaria* (Beaked Hawk's-beard), *Pilosella officinarum* (Mouse-ear-hawkweed), *Potentilla reptans* (Creeping Cinquefoil), *Trifolium dubium* (Lesser Trefoil), *Ranunculus bulbosus* (Bulbous

Buttercup), *Lathyrus pratensis* (Meadow Vetchling), *Centaurea nigra* (Common Knapweed) and *Erigeron acer* (Blue Fleabane).

Target Note 16. There are scattered mature *Crataegus monogyna* (Hawthorn) shrubs along this boundary.

Target Note 16a. A semi-mature *Fraxinus excelsior* (Ash) tree with an approximate dbh of 0.4 m which is covered in dense *Hedera helix* agg. (Ivy). There is an adjacent young *Acer pseudoplatanus* (Sycamore).

Target Note 16b. A semi-mature *Acer pseudoplatanus* (Sycamore) tree with an approximate dbh of 0.3 m.

Target Note 16c. A semi-mature/ mature *Acer pseudoplatanus* (Sycamore) tree. It is multi-stemmed; the largest stem has an approximate dbh of 0.3 m.

Target Note 17. A large, fairly shallow waterbody located in a low-lying depression. The depth is unknown but is greater than 0.3 m. The banks have a gentle slope of 5-15°. The adjacent improved grassland sward extends down the banks into the margins. The margins are dominated by *Agrostis stolonifera* (Creeping Bent) with locally frequent *Glyceria fluitans* (Floating Sweet-grass) and *Ranunculus sceleratus* (Celery-leaved Buttercup) throughout. *Alopecurus geniculatus* (Marsh Foxtail) and *Callitriche* sp. (Water-starwort) are also locally frequent in the margins with small amounts of *Ranunculus* sp. (Water-crowfoot) and *Persicaria maculosa* (Redshank). Many plants typical of the improved grassland were submerged at the time of the survey suggesting a variable water level.

Target Note 18. A small young broad-leaved plantation woodland on either side of the track. It contains *Fraxinus excelsior* (Ash), *Prunus avium* (Wild Cherry), *Quercus robur* (Pedunculate Oak), *Betula pendula* (Silver Birch), *Carpinus betulus* (Hornbeam), *Corylus avellana* (Hazel) and *Crataegus monogyna* (Hawthorn). It is located on an embankment up to a bridge. The ground layer is dominated by *Rubus fruticosus* agg. (Bramble). On the north side there is a dry ditch at the base of the slope that is approximately 1.5 m deep and 2 m wide.

Target Note 19. Two clumps of old Badger hairs on barb-wire at the bottom of the fence.

Target Note 20. A hedge that is managed to approximately 2.5 m high and 1.2 m wide. It is dominated by *Crataegus monogyna* (Hawthorn) with a small amount of *Sambucus nigra* (Elder).

Target Note 21. A mature *Fraxinus excelsior* (Ash) tree that is multi-stemmed; the largest stem has an approximate dbh of 0.35 m.

Target Note 22. A hedge that is largely recently planted and mostly outside the survey site.

Target Note 23. A faint animal path. No evidence of use by Badgers was recorded.

Target Note 24. Less frequently managed amenity grassland. It varies from species-poor to moderately species-rich and the sward height from 0.1 -0.25 m. It contains abundant *Lolium perenne* (Perennial rye-grass), locally abundant *Bellis perennis* (Daisy), frequent *Holcus lanatus* (Yorkshire-fog), *Dactylis glomerata* (Cock's-foot), *Ranunculus repens* (Creeping Buttercup), occasional *Festuca rubra* (Red Fescue), *Trifolium repens* (White Clover), *Achillea millefolium* (Yarrow), *Taraxacum officinale* (Dandelion) and a small amount of *Centaurea nigra* (Common Knapweed).

Target Note 25. There are small stands and scattered planted young/ semi-mature trees, largely with approximate dbh's of 0.1-0.2 m. The largest, a *Castanea sativa* (Sweet Chestnut) has an approximate dbh of 0.3 m. Most of the trees are *Betula pendula* (Silver Birch) with smaller amounts of *Quercus robur* (Pedunculate Oak), *Acer campestre* (Field-maple), *Sorbus aucuparia* (Rowan), *Prunus padus* (Bird Cherry), *Pinus sylvestris* (Scots Pine), *Ulmus* sp. (Elm) and *Aesculus hippocastanum* (Horse Chestnut). The ground layer beneath the trees is largely bare or is dominated by *Galium aparine*

(Cleavers) and *Urtica dioica* (Common Nettle) with some *Rubus fruticosus* agg. (Bramble). These trees were not individually assessed for their potential value for roosting bats but they are unlikely to contain such features due to their size/ age.

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7 DATA

Table 1 – Vascular plant species recorded within the survey site

Plant Species	Area 1	Area 2
<i>Acer campestre</i> (Field-maple)	✓	✓
<i>Acer pseudoplatanus</i> (Sycamore)	✓	✓
<i>Aesculus hippocastanum</i> (Horse Chestnut)	✓	
<i>Betula pendula</i> (Silver Birch)	✓	✓
<i>Buddleja davidii</i> (Butterfly-bush)		✓
<i>Carpinus betulus</i> (Hornbeam)		✓
<i>Castanea sativa</i> (Sweet Chestnut)	✓	
<i>Corylus avellana</i> (Hazel)		✓
<i>Cotoneaster</i> sp.		✓
<i>Crataegus monogyna</i> (Hawthorn)	✓	✓
<i>Fraxinus excelsior</i> (Ash)		✓
<i>Ilex aquifolium</i> (Holly)	✓	✓
<i>Malus</i> sp. (Apple)		✓
<i>Pinus sylvestris</i> (Scots Pine)	✓	
<i>Prunus avium</i> (Wild Cherry)		✓
<i>Prunus padus</i> (Bird Cherry)	✓	
<i>Prunus spinosa</i> (Blackthorn)		✓
<i>Quercus robur</i> (Pedunculate Oak)	✓	✓
<i>Rosa arvensis</i> (Field-rose)		✓
<i>Rosa canina</i> agg. (Dog-rose)	✓	✓
<i>Salix caprea</i> (Goat Willow)		✓
<i>Salix fragilis</i> (Crack Willow)		✓
<i>Sambucus nigra</i> (Elder)	✓	✓
<i>Sorbus aucuparia</i> (Rowan)	✓	
<i>Symphoricarpos albus</i> (Snowberry)		✓
<i>Ulmus</i> sp. (Elm)	✓	
<i>Ulmus glabra</i> (Wych Elm)		✓
<i>Achillea millefolium</i> (Yarrow)	✓	✓
<i>Aegopodium podagraria</i> (Ground-elder)		✓
<i>Agrostis capillaris</i> (Common Bent)		✓
<i>Agrostis stolonifera</i> (Creeping Bent)		✓
<i>Alliaria petiolata</i> (Garlic Mustard)		✓
<i>Anagallis arvensis</i> (Scarlet Pimpernel)	✓	

Plant Species	Area 1	Area 2
<i>Anisantha sterilis</i> (Barren Brome)		✓
<i>Anthriscus sylvestris</i> (Cow Parsley)	✓	✓
<i>Alopecurus geniculatus</i> (Marsh Foxtail)		✓
<i>Arabidopsis thaliana</i> (Thale Cress)		✓
<i>Arctium minus</i> (Lesser Burdock)		✓
<i>Artemisia vulgaris</i> (Mugwort)		✓
<i>Atriplex prostrata</i> (Spear-leaved Orache)		✓
<i>Ballota nigra</i> (Black Horehound)		✓
<i>Bellis perennis</i> (Daisy)	✓	✓
<i>Callitriche</i> sp. (Water-starwort)		✓
<i>Calystegia sepium</i> (Hedge Bindweed)	✓	✓
<i>Cardamine hirsuta</i> (Hairy Bittercress)	✓	✓
<i>Cardamine pratensis</i> (Cuckooflower)	✓	
<i>Carex pendula</i> (Pendulous Sedge)		✓
<i>Centaurea nigra</i> (Common Knapweed)	✓	✓
<i>Cerastium fontanum</i> (Common Mouse-ear)	✓	✓
<i>Chaerophyllum temulum</i> (Rough Chervil)		✓
<i>Cirsium arvense</i> (Creeping Thistle)	✓	✓
<i>Cirsium palustre</i> (Marsh Thistle)		✓
<i>Cirsium vulgare</i> (Spear Thistle)	✓	✓
<i>Clematis vitalba</i> (Traveller's-joy)	✓	✓
<i>Conium maculatum</i> (Hemlock)	✓	
<i>Crepis vesicaria</i> (Beaked Hawk's-beard)		✓
<i>Cynosurus cristatus</i> (Crested Dog's-tail)		✓
<i>Dactylis glomerata</i> (Cock's-foot)	✓	✓
<i>Digitalis purpurea</i> (Foxglove)		✓
<i>Dioscorea communis</i> (Black Bryony)		✓
<i>Dryopteris filix-mas</i> (Male-fern)		✓
<i>Elytrigia repens</i> (Common Couch)		✓
<i>Epilobium hirsutum</i> (Great Willowherb)		✓
<i>Erigeron acris</i> (Blue Fleabane)		✓
<i>Festuca rubra</i> (Red Fescue)	✓	✓
<i>Fumaria</i> sp. (Fumitory)		✓
<i>Galium aparine</i> (Cleavers)	✓	✓
<i>Geranium dissectum</i> (Cut-leaved Crane's-bill)		✓
<i>Geranium molle</i> (Dove's-foot Crane's-bill)	✓	✓

Plant Species	Area 1	Area 2
<i>Geranium robertianum</i> (Herb-robert)		✓
<i>Geum urbanum</i> (Wood Avens)	✓	✓
<i>Glyceria fluitans</i> (Floating Sweet-grass)		✓
<i>Hedera helix</i> agg. (Ivy)	✓	✓
<i>Heracleum sphondylium</i> (Hogweed)	✓	✓
<i>Holcus lanatus</i> (Yorkshire-fog)	✓	✓
<i>Hypochaeris radicata</i> (Cat's-ear)		✓
<i>Lamium album</i> (White Dead-nettle)	✓	✓
<i>Lamium purpureum</i> (Red Dead-nettle)		✓
<i>Lapsana communis</i> (Nipplewort)	✓	✓
<i>Lathyrus pratensis</i> (Meadow Vetchling)		✓
<i>Lolium perenne</i> (Perennial Rye-grass)	✓	✓
<i>Matricaria discoidea</i> (Pineappleweed)		✓
<i>Medicago lupulina</i> (Black Medick)		✓
<i>Mercurialis perennis</i> (Dog's Mercury)		✓
<i>Mycelis muralis</i> (Wall Lettuce)		✓
<i>Myosotis arvensis</i> (Field Forget-me-not)	✓	✓
<i>Oxalis</i> sp.		✓
<i>Persicaria maculosa</i> (Redshank)		✓
<i>Phyllitis scolopendrium</i> (Hart's-tongue)		✓
<i>Pilosella officinarum</i> (Mouse-ear-hawkweed)		✓
<i>Plantago lanceolata</i> (Ribwort Plantain)	✓	✓
<i>Plantago major</i> (Greater Plantain)		✓
<i>Poa annua</i> (Annual Meadow-grass)	✓	✓
<i>Poa pratensis</i> (Smooth Meadow-grass)		✓
<i>Polygonum aviculare</i> (Knotgrass)		✓
<i>Polystichum setiferum</i> (Soft Shield-fern)		✓
<i>Potentilla reptans</i> (Creeping Cinquefoil)	✓	✓
<i>Ranunculus acris</i> (Meadow Buttercup)	✓	✓
<i>Ranunculus</i> sp. (Water-crowfoot)		✓
<i>Ranunculus bulbosus</i> (Bulbous Buttercup)		✓
<i>Ranunculus repens</i> (Creeping Buttercup)	✓	✓
<i>Ranunculus sceleratus</i> (Celery-leaved Buttercup)		✓
<i>Rubus fruticosus</i> agg. (Bramble)	✓	✓
<i>Rumex acetosa</i> (Common Sorrel)		✓
<i>Rumex acetosella</i> (Sheep's Sorrel)		✓

Plant Species	Area 1	Area 2
<i>Rumex crispus</i> (Curled Dock)	✓	✓
<i>Rumex conglomeratus</i> (Clustered Dock)		✓
<i>Rumex obtusifolius</i> (Broad-leaved Dock)	✓	✓
<i>Schedonorus arundinaceus</i> (Tall Fescue)		✓
<i>Scorzoneroide autumnalis</i> (Autumn Hawkbit)		✓
<i>Senecio jacobaea</i> (Common Ragwort)	✓	✓
<i>Senecio squalidus</i> (Oxford Ragwort)		✓
<i>Senecio vulgaris</i> (Groundsel)		✓
<i>Silene dioica</i> (Red Campion)		✓
<i>Sisymbrium officinale</i> (Hedge Mustard)		✓
<i>Solanum lycopersicum</i> (Tomato)		✓
<i>Sonchus asper</i> (Prickly Sowthistle)	✓	✓
<i>Sonchus oleraceus</i> (Smooth Sowthistle)	✓	✓
<i>Stachys sylvatica</i> (Hedge Woundwort)	✓	✓
<i>Stellaria media</i> (Common Chickweed)	✓	✓
<i>Symphytum xuplandicum</i> (Russian Comfrey)	✓	✓
<i>Taraxacum</i> sect. <i>Ruderalia</i> (Common Dandelion)	✓	✓
<i>Torilis japonica</i> (Upright Hedge-parsley)	✓	✓
<i>Trifolium dubium</i> (Lesser Trefoil)	✓	✓
<i>Trifolium repens</i> (White Clover)	✓	✓
<i>Tripleurospermum inodorum</i> (Scentless Mayweed)		✓
<i>Tussilago farfara</i> (Colt's-foot)		✓
<i>Urtica dioica</i> (Common Nettle)	✓	✓
<i>Veronica persica</i> (Common Field-speedwell)	✓	
<i>Vicia sativa</i> (Common Vetch)	✓	✓
<i>Vicia</i> sp. (Vetch)		✓

8 APPENDIX 1 - SPECIES-SPECIFIC LEGISLATION

8.1 Introduction

- 8.1.1 The species-specific legislation below is presented here due either to the actual or suspected/ possible presence of each species on the site or within the zone of influence and is therefore considered to be relevant for this study.
- 8.1.2 This sub-section provides a brief summary of key relevant species legislation. It should not be considered a comprehensive review and is not meant to be so. It is provided here for information only and is not intended to replace specialised legal advice. It does not replace the text of the legislation, but summarises the salient points.

8.2 Badger

- 8.2.1 The Badger is protected in Britain under the *Protection of Badgers Act 1992* and *Schedule 6* of the *Wildlife and Countryside Act 1981* (as amended). The legislation affords protection to Badger and Badger setts, and makes it a criminal offence to:
- wilfully kill, injure, take, possess or cruelly ill-treat a Badger, or attempt to do so;
 - interfere with a sett by damaging or destroying it;
 - to obstruct access to, or any entrance of, a Badger sett; or
 - to disturb a Badger when it is occupying a sett.

8.3 Bats

- 8.3.1 All species of British bat are listed on *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), and receive full protection under *Section 9*. They are also listed as European Protected Species on *Schedule 2* of *The Conservation of Habitats and Species Regulations 2017* which gives them full protection under *Regulation 42(1)*. Protection was extended by the *Countryside and Rights of Way Act 2000* (the *CRoW Act 2000*).
- 8.3.2 Under the above legislation it is an offence to intentionally or recklessly:
- kill, injure or take an individual of such a species;
 - possess any part of such species either alive or dead;
 - damage, destroy or obstruct access to any place or structure used by such species for shelter, rest, protection or breeding;
 - disturb such a species whilst using any place of shelter or protection; or
 - sell or attempt to sell any such species.
- 8.3.3 Several species of bat are included on *Section 7* of the *Environment Act 2016*.
- 8.3.4 All species of British bat are also protected under *Schedule 6* of the *Wildlife and Countryside Act 1981* (as amended). This protection relates specifically to trapping and direct pursuit of the species.

8.4 Great Crested Newt

- 8.4.1 Great Crested Newts are listed on *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), and receive full protection under *Section 9*. The 1981 Act was amended by the *CRoW Act 2000* which further extends the protection. They are also listed as European Protected Species on *Schedule 2* of *The Conservation of Habitats and Species Regulations*

2017 which gives it full protection under *Regulation 42(1)*. The legislation applies to all life stages of the Great Crested Newt, including eggs, larvae, juveniles and adults.

8.4.2 Under the above legislation it is an offence to intentionally or recklessly:

- kill, injure or take an individual of such a species;
- possess any part of such species either alive or dead;
- damage, destroy or obstruct access to any place or structure used by such species for shelter, rest, protection or breeding;
- disturb such a species whilst using any place of shelter or protection; or
- sell or attempt to sell any such species.

8.4.3 The Great Crested Newt is included on *Section 7* of the *Environment Act 2016*.

8.5 Reptiles

8.5.1 Viviparous Lizard, Grass Snake, Slow-worm and Adder are all listed under *Schedule 5* of the *Wildlife and Countryside Act 1981* (as amended), in respect of *Section 9(5)* and part of *Section 9(1)*. This protection was extended by the *CRoW Act 2000*.

8.5.2 Under the above legislation it is an offence to:

- intentionally or recklessly kill or injure any individual of such a species; or
- sell or attempt to sell any part of the species alive or dead.

8.5.3 All four of the above listed reptiles are included on *Section 7* of the *Environment Act 2016*.

8.6 Birds

8.6.1 All species of bird are protected under *Section 1* of the *Wildlife and Countryside Act 1981* (as amended). The protection was extended by the *CRoW Act 2000*.

8.6.2 The legislation makes it an offence to intentionally or recklessly:

- kill, injure or take any wild bird;
- take, damage or destroy the nest of any wild bird while that nest is in use or being built; or
- take or destroy an egg of any wild bird.

8.6.3 Certain species of bird are listed on *Schedule 1* of the *Wildlife and Countryside Act 1981* (as amended) and receive protection under *Sections 1(4)* and *1(5)* of the Act. The legislation confers special penalties where the above mentioned offences are committed for any such bird and also make it an offence to intentionally or recklessly:

- disturb any such bird, whilst building its nest or it is in or near a nest containing dependant young; or
- disturb the dependant young of such a bird.

8.6.4 *Section 7* of the *Environment Act 2016* includes several birds.

9 APPENDIX 2 – DATA SUPPLIED BY COFNOD (PUBLIC VERSION)

Cofnod Environmental Information Search (PUBLIC VERSION)

Our Reference	CO/E10618
Your Reference	C500/ EBDS
Requested By	Tom Knight, Marches Ecology LLP
Data Users	Tom Knight, Partner, Marches Ecology; Max Ellson, Partner, Marches Ecology; Mark Brett, Project Manager, National Trust; Gemma Baron, Assistant Nature Conservation Advisor, National Trust
Search Date	21/11/2022 12:03
Expiry Date	21/05/2023 (may be extended on request)
Search Type	Chargeable

Important Information

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Notes

- Records with 1km, 2km, 5km, 10km or 100km grid references (where present) are highlighted with, for example, (1km) next to the distance to indicate that the distance should not be considered to be exact given the vague nature of the grid reference.
- Records shown in **bold** typeface are sensitive species records, and some details have been restricted in this public version of the report.

Verification Levels

- **UA**: Unassessed
- **PC**: Probably Correct
- **KC**: Known Correct
- **NA**: Not Required

Species Categories

- **All Other Species**: Any species not included in other categories
- **Category 1 Species**: Species with European and/or UK Legal Protection, Section 7 Species or UK BAP Priority Species
- **Category 2 Species**: Global Red List, British Red Data Book, Nationally Rare & Scarce, Welsh Red and Amber Birds & Welsh Vascular Plant Red Data List, not identified in Category 1
- **Category 3 Species**: Local species not identified under Categories 1 & 2, Locally Important species as specified by local experts

Abbreviations

BAP - UK Biodiversity Action Plan Priority Species, **BDir1** - EU Birds Directive Annex 1 - Birds which are the subject of special conservation measures, **BDir2.1** - EU Birds Directive Annex 2.1 - Birds which may potentially be hunted, **BDir2.2** - EU Birds Directive Annex 2.2 - Birds which may potentially be hunted within certain member states, **Bern2** - Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 2 - Strictly protected fauna species, **Bern3** - Bern Convention on the Conservation of European Wildlife and Natural Habitats, Appendix 3 - Protected fauna species, **Bonn2** - Bonn Convention on the Conservation of Migratory Species of Wild Animals, Appendix 2 - Migratory Species to be the subject of agreements, **CHS2** - The Conservation of Habitats and Species Regulations 2010, Schedule 2 - European Protected Species of Animals, **CITES-A** - Convention on International Trade in Endangered Species, Annex A - Species threatened with extinction, **GBNNSIP** - Great Britain Non-native Species Inventory Portal Checklist of Non-native Species, **HDir2** - Habitats Directive, Annex II - Species requiring designation of Special Areas of Conservation, **HDir4** - Habitats Directive, Annex IV - Species in need of strict protection, **HDir5** - Habitats Directive, Annex V - Species where population management is decided by individual countries, **INNS** - Invasive Non-native Species, **LBAP-A** - Anglesey Local Biodiversity Action Plan, **LBAP-C** - Conwy Local Biodiversity Action Plan, **LBAP-D** - Denbighshire Local Biodiversity Action Plan, **LBAP-F** - Flintshire Local Biodiversity Action Plan, **LBAP-G** - Gwynedd Local Biodiversity Action Plan, **LBAP-S** - Snowdonia National Park Authority Local Biodiversity Action Plan, **LBAP-T** - North and Mid Wales Trunk Road Agent Biodiversity Action Plan, **LBAP-W** - Wrexham Local Biodiversity

Action Plan, **LI-50** - Locally Important Species in Vice-County 50: Denbighshire, **PBA** - Protection of Badgers Act 1992, **RDB-NA** - Red Data Book listing (not based on IUCN guidelines) - Notable A, **RDB-NB** - Red Data Book listing (not based on IUCN guidelines) - Notable B, **RDB-NR** - Red Data Book listing (not based on IUCN guidelines) - Nationally Rare, **RDB-NS** - Red Data Book listing (not based on IUCN guidelines) - Nationally Scarce, **RL-CR** - IUCN Red List of Threatened Species - Critically Endangered, **RL-DD** - IUCN Red List of Threatened Species - Data Deficient, **RL-EN** - IUCN Red List of Threatened Species - Endangered, **RL-NT** - IUCN Red List of Threatened Species - Near Threatened, **RL-PX** - IUCN Red List of Threatened Species - Possibly Extinct, **RL-VU** - IUCN Red List of Threatened Species - Vulnerable, **S7** - Environment (Wales) Act 2016 (Section 7), **UKBA** - RSPB/BTO Birds of Conservation Concern - Amber list (not based on IUCN criteria), **UKBR** - RSPB/BTO Birds of Conservation Concern - Red list (not based on IUCN criteria), **WBA** - RSPB/BTO Birds of Conservation Concern in Wales - Amber list (not based on IUCN criteria), **WBR** - RSPB/BTO Birds of Conservation Concern in Wales - Red list (not based on IUCN criteria), **WCA1.1** - Wildlife & Countryside Act 1981 Schedule 1.1 - Birds which are protected at all times, **WCA1.2** - Wildlife & Countryside Act 1981 Schedule 1.2 - Birds which are protected during the close season, **WCA5** - Wildlife & Countryside Act 1981 Schedule 5 - Animals which are protected, **WCA9** - Wildlife & Countryside Act 1981 Schedule 9 - Animals and plants which may not be released/planted or allowed to escape/grow in the wild

Data Description

Distance	Indicates the distance, in metres, between the grid reference of the record (using the central point of the grid square) and the search location. For any Sensitive Species Records, this should not be released into the Public Domain.
Species Name	Name of the taxon (usually identified to species level) using the binomial system.
Grid Reference	Grid reference based on the Ordnance Survey grid system.
Date	Date on which the record was made. In some cases this might be a date range, or a vague date such as 'Summer 2010'.
Recorder(s)	One or more people who made the original observation and recorded it in some way. It may have subsequently been included in a data collation by another person or it may have been submitted to the LERC directly.
Abundance	Number of individuals recorded. Where not specified it is assumed that at least one was present.
Record Type	A description of the type of record.
Site Name	The site name (if one has been supplied). For any Sensitive Species Records, this cannot be released into the Public Domain.
Notes	Any additional notes about the sighting. For any Sensitive Species Records, this cannot be released into the Public Domain.
Dataset ID	ID of this dataset. See 'Important Issues' for more details.
Lists	Any local, national or international conservation statuses or legal protection which apply to this species and whether it is included in any Local Biodiversity Action Plans. See 'Abbreviations' for more details.
V	An indicator showing the level of confidence held in the record's correct identification.

Dataset Information

The records in these results are drawn from the following datasets. Use the Dataset ID next to each record to find its dataset.

Dataset ID	Title	Acknowledgements	Type
D0026/030/01	Records captured from CCW regional files - CCW Files SJ26.3.1 & SJ26.3.2 - SSSI: Buckley Claypits And Commons - Scientific Information - Amphibians - General	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D0026/036/01	Records captured from CCW regional files - CCW Files SJ26.3.1 & SJ26.3.2 - SSSI: Buckley Claypits And Commons - Scientific Information - Standard	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D0026/279/01	Records captured from CCW regional files - CCW File M1.1.4.2 - North Wales - Amphibian Survey and Monitoring	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D0035/002/01	Vice-County dataset - Reptile records from Denbighshire and Flintshire Vice-counties (50 and 51)	Mick Brummage (North East Wales Amphibian and Reptile Network)	Species
D0059/001/03	North Wales badger records held by Clwyd Badger Group (including some historic data) - CBG Historic sett data	Clwyd Badger Group (clwydbadgergroup@btinternet.com)	Species
D0062/008/01	Vice-County dataset - Bird records from Flintshire and Denbighshire Vice-counties (50 and 51) - All records up to 2018	Ian M Spence (Clwyd Bird Recording Group)	Species
D0062/010/01	Vice-County dataset - Bird records from Flintshire and Denbighshire Vice-counties (50 and 51) - 2019 records	Ian M Spence (Clwyd Bird Recording Group)	Species
D0127/001/02	Historic Vice-County dataset - Butterfly records from Denbighshire and Flintshire Vice-counties (50 and 51)	Rob Whitehead	Species
D0135/022/01	Miscellaneous species records by Andrew and Janet Graham - Invertebrate records, mainly from 2021	Andrew Graham	Species
D0137/001/01	Great Crested Newt (Triturus cristatus) Sites in Wales	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D0217/001/04	Welsh Invertebrate Database (WID) - Records from within the Cofnod boundary	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D0225/001/01	Native Black Poplar records from North East Wales	Les Starling & Trefor Thompson	Species
D0823/001/02	A collation of records of stoneworts in Wales	Cyfoeth Naturiol Cymru/Natural Resources Wales (NBN Download)	Species
D0967/009/01	Miscellaneous species records by John Lawton Roberts (and a small number of third party records submitted to him). - Mammal & Herptile records 2015	John Lawton Roberts	Species
D0989/001/01	CLARKE, A., 2002: "Skylark Breeding Surveys - Alyn Waters Country Park & Maes Hafod Community Woodland". Unpublished report. - CLARKE, A., 2002: "Skylark Breeding Surveys - Alyn Waters Country Park & Maes Hafod Community Woodland". Unpublished report.	Clarke, A. & Cyngor Bwrdeistref Sirol Wrecsam/Wrexham County Borough Council	Species

D1045/001/01	Newt Surveys at Johnstown SAC and Deeside & Buckley SAC	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1075/001/06	Bryophyte data for Great Britain from the British Bryological Society held by BRC: Atlas 2014 - North Wales data	British Bryological Society (NBN download 04/12/2019)	Species
D1078/001/02	Crane fly (Diptera; Tipuloidea) records for Britain to 2016	Biological Records Centre & Crane fly Recording Scheme (NBN Download, 20/12/2018)	Species
D1117/001/01	ad hoc Cofnod Online Recording System records	Individual Recorder(s)	Species
D1118/011/03	Miscellaneous species datasets held in MapInfo format by Matthew Ellis - Great Crested Newt records	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1118/013/01	Miscellaneous species datasets held in MapInfo format by Matthew Ellis - Watervole records	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1122/001/01	ANON - HERPETOFAUNA CONSULTANTS INTERNATIONAL, 1992: "Crested Newt Survey of North-East Clwyd. A report to the Countryside Council for Wales (September 1992)". - Great Crested Newt data	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1122/002/01	ANON - HERPETOFAUNA CONSULTANTS INTERNATIONAL, 1992: "Crested Newt Survey of North-East Clwyd. A report to the Countryside Council for Wales (September 1992)". - Non Great Crested Newt data	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1169/004/02	Vice-County dataset - Vascular plant records from Denbighshire Vice-county (50). - Complete dataset	Delyth Williams (BSBI Vice County Recorder)	Species
D1286/001/02	Invasive species records gathered as part of North East Wales Invasive Action project	North East Wales Wildlife	Species
D1295/001/04	Dragonfly records from the British Dragonfly Society Recording Scheme - Records from the Cofnod area	British Dragonfly Society Recording Scheme (NBN download, 24/07/2020)	Species
D1297/025/01	BirdTrack records - 2004-2018 data from Vice-Counties 50 & 51 (Denbighshire & Flintshire)	Ian M. Spence and British Trust for Ornithology	Species
D1297/026/01	BirdTrack records - 2019 data from Vice-County 50 (Denbighshire)	Ian M. Spence and British Trust for Ornithology	Species
D1297/039/01	BirdTrack records - 2020 records for Vice-County 50 (Denbighshire)	Ian M. Spence and British Trust for Ornithology	Species
D1297/042/01	BirdTrack records - 1900-2003 records for Vice-County 50 Denbighshire	Ian M. Spence and British Trust for Ornithology	Species
D1314/002/01	Records contained within annual summaries of NEWARN amphibian survey and monitoring results - 2003 data	Cyfoeth Naturiol Cymru/Natural Resources Wales and North East Wales Amphibian and Reptile Network	Species
D1314/003/01	Records contained within annual summaries of NEWARN amphibian survey and monitoring results - 2004 data	Cyfoeth Naturiol Cymru/Natural Resources Wales and North East Wales Amphibian and Reptile Network	Species
D1314/004/01	Records contained within annual summaries of NEWARN amphibian survey and monitoring results - 2005 data	Cyfoeth Naturiol Cymru/Natural Resources Wales and North East Wales Amphibian and Reptile Network	Species

D1314/006/01	Records contained within annual summaries of NEWARN amphibian survey and monitoring results - 2007 data	Cyfoeth Naturiol Cymru/Natural Resources Wales and North East Wales Amphibian and Reptile Network	Species
D1320/003/01	Records collected as part of Great Crested Newt monitoring coordinated by Natural Resources Wales - 2005 surveys	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1320/014/01	Records collected as part of Great Crested Newt monitoring coordinated by Natural Resources Wales - Data entered onto Cofnod ORS (**up to 20/10/2021 only**)	North East Amphibian & Reptile Network	Species
D1373/001/05	Historic Vice-County dataset - Butterfly records from Denbighshire and Flintshire Vice-counties (50 and 51)	David Hinde	Species
D1398/001/01	Miscellaneous species records collected as part of the 'Not Just Newts' project funded by Countryside Council for Wales Species Challenge Fund. - Bat records	North East Wales Wildlife	Species
D1398/002/01	Miscellaneous species records collected as part of the 'Not Just Newts' project funded by Countryside Council for Wales Species Challenge Fund. - Miscellaneous species records	North East Wales Wildlife	Species
D1486/001/01	Natural Resources Wales North Wales Bat Roosts	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1531/001/01	Species records held by Wild Ground for all reserves - Ad hoc records	Wild Ground Ltd	Species
D1531/003/01	Species records held by Wild Ground for all reserves - Ad hoc records from Wild Ground ponds	Wild Ground	Species
D1543/001/01	Miscellaneous bat records collected by Sam Dyer - Building and Roost records	Sam Dyer	Species
D1586/014/01	Miscellaneous species records collected as part of the Dee Invasive Non-Native Species Project - Records entered through the Dee INNS Atlas or Cofnod ORS	Individual Recorders & Dee Invasive Non-Native Species Project	Species
D1650/001/02	Miscellaneous invertebrate species records by Bryan Formstone and others - Aculeata records from Vice-counties 50 and 51	Bryan Formstone	Species
D1688/007/01	Big Hedgehog Map records - Records from January 2021 - July 2021	People's Trust for Endangered Species	Species
D1737/003/01	Amphibian and Reptile records held by ARC Trust - Data from the Cofnod area	Amphibian and Reptile Conservation	Species
D1775/001/02	Tir Cynnal and Tir Gofal Monitoring and Evaluation Programme: Field-scale winter surveys of yellowhammers	Welsh Government (NBN Download, 13/11/2019)	Species
D1844/001/03	iRecord data for the Cofnod area - Verified data	Biological Records Centre and Individual Recorders	Species
D1847/001/01	Hogwatch and Rural Landowner surveys	People's Trust for Endangered Species	Species
D1852/001/01	RSPB Big Garden Birdwatch winter sightings in the UK in 2008 - 2008 records	RSPB (NBN Download, 16/01/2019)	Species

D1852/002/01	RSPB Big Garden Birdwatch winter sightings in the UK in 2008 - 2009 records	RSPB (NBN Download, 16/01/2019).	Species
D1858/001/02	Butterfly records collected and collated by Andrew Graham for VCs 50 and 51 - Records to 2019 inclusive	Andrew Graham	Species
D1858/004/01	Butterfly records collected and collated by Andrew Graham for VCs 50 and 51 - 2021 records	Andrew Graham	Species
D1923/001/01	Natural Resources Wales (NRW) Licence Return Dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales (NBN Download, 05/12/2019)	Species
D2008/001/01	National Trust Species Records	National Trust (NBN download, 06/05/2021)	Species
D2067/001/01	Vice-County dataset - Micro-moth records from Denbighshire Vice-county (50) - Micro-moth records	Andrew Graham	Species
D0220/009/01	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/02	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/03	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/04	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/05	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/06	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/07	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/08	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/09	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/10	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/009/11	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/011/01	GIS Datasets for Protected Sites in Wales - Country Parks	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/011/02	GIS Datasets for Protected Sites in Wales - Country Parks	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites

D0220/011/03	GIS Datasets for Protected Sites in Wales - Country Parks	Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Contains Ordnance Survey Data. Ordnance Survey Licence number 100019741. Crown Copyright and Database Right.	Sites
D0220/012/01	GIS Datasets for Protected Sites in Wales - Special Areas of Conservation-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/012/02	GIS Datasets for Protected Sites in Wales - Special Areas of Conservation-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/012/03	GIS Datasets for Protected Sites in Wales - Special Areas of Conservation-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/012/04	GIS Datasets for Protected Sites in Wales - Special Areas of Conservation-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/012/05	GIS Datasets for Protected Sites in Wales - Special Areas of Conservation-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/012/06	GIS Datasets for Protected Sites in Wales - Special Areas of Conservation-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/013/01	GIS Datasets for Protected Sites in Wales - Listed Buildings	Designated Historic Asset GIS Data, The Welsh Historic Environment Service (Cadw), licensed under the Open Government Licence http://www.nationalarchives.gov.uk/doc/open-government-licence/version/3/	Sites
D0220/014/01	GIS Datasets for Protected Sites in Wales - Scheduled Monuments	Welsh Government	Sites
D1377/001/01	Wildlife Site boundaries for Wales	Various	Sites
D1377/001/02	Wildlife Site boundaries for Wales	Relevant Welsh Local Authorities and Local Wildlife Trusts, Cofnod, BIS and SEWBRc	Sites
D1377/001/03	Wildlife Site boundaries for Wales	Relevant Welsh Local Authorities and Local Wildlife Trusts, Cofnod, BIS and SEWBRc	Sites
D1377/001/04	Wildlife Site boundaries for Wales	Various	Sites
D2073/001/01	Important Invertebrate Areas	Buglife	Sites
D0157/002/01	Phase 1 Habitat Survey of Wales 1979-1997 - GIS layer showing habitats as polygons and using the phase 1 codes to identify the habitat category	Cyfoeth Naturiol Cymru/Natural Resources Wales	Habitats
D1006/004/01	Ancient Woodland Inventory 2021 - 2021	Cyfoeth Naturiol Cymru/Natural Resources Wales	Habitats
D1006/004/02	Ancient Woodland Inventory 2021 - 2021	Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved. Contains Ordnance Survey Data. Ordnance Survey Licence number 100019741. Crown Copyright and Database Right.	Habitats

Contact Us

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- PUBLIC VERSION -

Search Location	Grid Reference
Hafod Woodland	SJ31354632

Category 1 Species										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Acanthis cabaret</i> (Lesser Redpoll)	SJ3146 (Approximate)	11/10/2020	Mr Steven Davies	2		Bonc-yr-Hafod		D1297/039/01	BAP, LBAP-C, LBAP-D, S7, WBR	PC
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ311468 (Estimated (Centroid of Site))	08/05/2002 to 20/06/2002	Andrew Clarke	13-15 Territories		SSSI: Stryt Las a'r Hafod; Maes Hafod Community Woodland	Grid ref determined from email communication with Emily Meilleur.	D0989/001/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, UKBR, WBA	PC
<i>Alcedo atthis</i> (Kingfisher / Glas y Dorlan)	SJ308462 (Estimated (Centroid of Site))	29/09/2008	Karl Martin	1 Adult	Field record	Hafod Newt Reserve	Disturbed near Pond 6	D1398/002/01	BDir1, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, WBA, WCA1.1	PC
<i>Anguilla anguilla</i> (Eel / Llysywen)	SJ3079246468 (Selected from Interactive Map)	26/04/2016	Alasdair Thomson; Lindsay Bryan	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH13		D1320/014/01	BAP, LBAP-C, LBAP-G, S7	PC
<i>Botaurus stellaris</i> (Bittern / Aderyn y Bwn)	SJ34	2019	N. Roberts Via Dr C.C. Jones	1		-Withheld-	-Withheld-	D0062/010/01	BAP, BDir1, Bern2, LBAP-A, LBAP-C, LBAP-G, RL-NT, RL-VU, S7, UKBA, WBA, WCA1.1	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3072545865 (Selected from Interactive Map)	2 records, between 08/04/2015 and 13/05/2015	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis	1 Age & Sex Unknown; 1 Male; 1 Female	Torch Count	Hafod Lagoons: Lagoon 4		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3080546365 (Selected from Interactive Map)	2 records, between 10/04/2008 and 10/04/2018	Kylie Jones; Kim Norman; Matthew Ellis	1 Adult Female; 2 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 06		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3077746606 (Selected from Interactive Map)	08/06/2011	Alasdair Thomson	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH18		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3081546275 (Selected from Interactive Map)	2 records, between 08/05/2012 and 10/04/2018	Matthew Ellis; Simon Cope; Nicola Wheeler	2 Adult (Sex Unknown); 1 Larva/Tadpole	Torch Count	Hafod R1: Pond 09		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3083546305 (Selected from Interactive Map)	2 records, between 12/04/2017 and 10/04/2018	Matthew Ellis; Nicola Wheeler; Simon Cope	4 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 08		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3081546395 (Selected from Interactive Map)	10/04/2018	Matthew Ellis	2 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 05		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3085846385 (Selected from Interactive Map)	2 records, between 12/04/2017 and 10/04/2018	Matthew Ellis; Nicola Wheeler; Simon Cope	2 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 04		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3094546365 (Selected from Interactive Map)	10/04/2018	Matthew Ellis	1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 02a (former site)		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3093546415 (Selected from Interactive Map)	10/04/2018	Matthew Ellis	11 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 03 (former site)		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3096546415 (Selected from Interactive Map)	10/04/2018	Matthew Ellis	1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 01		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3094546395 (Selected from Interactive Map)	10/04/2018	Matthew Ellis	2 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 02		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3079446798 (Selected from Interactive Map)	5 records, between 29/04/2014 and 07/05/2019	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Lindsay Bryan; Jamie Thomson; Alasdair Thomson; Ally Whitley	2 Adult (Sex Unknown); 5 Adult (Sex Unknown); 1 Adult (Sex Unknown); 1 Juvenile (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: Rail ditch	Stickleback	D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3079246468 (Selected from Interactive Map)	11 records, between 04/05/2006 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; David Groom; Matthew Ellis; Alasdair Thomson; Rachael Davis; Alasdair Thomson; Lindsay Bryan; Jamie Thomson; Alasdair Thomson; Ally Whitley; Alasdair Thomson; Jamie T...	41 Adult (Sex Unknown); 1 Adult (Sex Unknown); Larva/Tadpole; 1 Adult (Sex Unknown); Larva/Tadpole	Torch Count	Bonc y Hafod Country Park: SLH13		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3081946476 (Selected from Interactive Map)	5 records, between 23/04/2013 and 10/04/2018	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Julie Rose; Sue Budd	2 Adult (Sex Unknown); 5 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH14	3 big fish spotted - previously fish free	D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3116646487 (Selected from Interactive Map)	10/04/2018	Alasdair Thomson; Lindsay Bryan	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH16		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3077446631 (Selected from Interactive Map)	2 records, between 10/04/2018 and 14/05/2019	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Jamie Thomson	2 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH19		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3084746980 (Selected from Interactive Map)	6 records, between 13/04/2010 and 08/05/2018	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Kia Thomas; Steve R; Anon; Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Rachael Davis	2 Adult (Sex Unknown); 1 Adult (Sex Unknown); 4 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH20	Stickleback	D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3085547006 (Selected from Interactive Map)	2 records, between 13/04/2010 and 10/04/2018	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Kia Thomas; Steve R; Anon	2 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH21		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3086047025 (Selected from Interactive Map)	3 records, between 08/04/2014 and 08/05/2018	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Lindsay Bryan; Kim Norman	5 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH22		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3072546181 (Selected from Interactive Map)	2 records, between 10/04/2018 and 06/06/2019	Paul Furnborough; Ian Moran; Paul Furnborough	1 Age & Sex Unknown; 2 Age & Sex Unknown	Torch Count	Aberderfyn: SLH12		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3081546215 (Selected from Interactive Map)	2 records, between 09/04/2013 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Matthew Ellis	1 Larva/Tadpole; 1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 10		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3117546483 (Selected from Interactive Map)	02/06/2015	Alasdair Thomson; Rachael Davis; Kim Norman	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH17		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ3078846181 (Selected from Interactive Map)	16/05/2019	Ian Moran	2 Age & Sex Unknown	Torch Count	Aberderfyn: SLH12b		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadenog)	SJ3072546099 (Selected from Interactive Map)	2 records, between 16/05/2019 and 21/04/2021	Ian Moran; Paul Furnborough; Emma Ellis	2 Age & Sex Unknown; 1 Adult (Sex Unknown)	Torch Count	Aberderfyn: SLH12e		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	NA
<i>Cerastium fontanum</i> (Common Mouse-ear / Clust-y-Llygoden Gulddail)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	BAP	NA
<i>Cerastium fontanum</i> (Common Mouse-ear / Clust-y-Llygoden Gulddail)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 2,3	D1531/001/01	BAP	PC
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ3146	2 records, between 20/12/2014 and 04/08/2017	Steven Davies; Trevor B Taylor			Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01	BDir2.2, LBAP-G, RL-VU, S7, UKBA, WBR	PC
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ307459 (Approximate)	24/11/2015	Karl Martin	Present Full-Grown		Aberderfyn	Overhead	D1531/001/01	BDir2.2, LBAP-G, RL-VU, S7, UKBA, WBR	PC
<i>Chroicocephalus ridibundus</i> (Black-headed Gull / Gwylan Benddu)	SJ3145	24/01/2014	Mark T Breaks			Johnstown, SE	BirdTrack	D1297/025/01	BDir2.2, LBAP-G, RL-VU, S7, UKBA, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Coenonympha pamphilus</i> (Small Heath / Gweirlöyn Bach y Waun)	SJ311466	17/07/2005	Adrian R. Jones	2 Adult		Bonc-yr-hafod (Picnic Mountain)		D1373/001/05	BAP, LBAP-G, RL-NT, S7	NA
<i>Dryobates minor</i> (Lesser Spotted Woodpecker / Cnocell Fraith Leiaf)	SJ3247	2 records, between 21/04/2006 and 28/04/2006	John Lawton Roberts	1	Reported to recorder	Wrexham, Erddig, Hafod Wood	Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	NA
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ3245	2 records, between 08/05/2008 and 14/06/2008	Neil Hughes	3; 4	Reported to recorder	Gyfelia	TTV record. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, UKBR, WBR	NA
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ3247	11/04/2009	Neil Hughes	1 Male	Reported to recorder	Wrexham, Erddig, Hafod Wood	Singing, roving record. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, UKBR, WBR	NA
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ3146	20/02/2002	Emily Meilleur		Reported to recorder	Rhosllanerchrugog, Brick works	Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, UKBR, WBR	NA
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ3246	2 records, both on 01/07/2001	Neil Hughes	3 Female; 3 Male	Reported to recorder	Sontley, pools	Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, UKBR, WBR	NA
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ3247	24/06/2018	Heather Cartwright			Wrexham, Erddig, Hafod Wood		D1297/025/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBA	PC
<i>Emberiza schoeniclus</i> (Reed Bunting / Bras y Cyrs)	SJ3045	01/04/2007	Norman Hallas	1 Male	Reported to recorder	Ruabon, New Hall	flew from reeds. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ311466	4 records, between 22/05/2004 and 18/06/2005	Adrian R. Jones	10; 33; 4; 1		Bonc-yr-hafod (Picnic Mountain)		D1858/001/02	BAP, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7	NA
<i>Erynnis tages</i> (Dingy Skipper / Gwibiwr Llwyd)	SJ307462	07/06/2003	Rob W Whitehead	2	Field record	Aberderfyn, Johnstown		D1373/001/05	BAP, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7	NA
<i>Falco peregrinus</i> (Peregrine / Hebog Tramor)	SJ34 (Approximate)	05/09/2020	Mrs Heather Cartwright			-Withheld-	-Withheld-	D1297/039/01	BDir1, Bern2, Bonn2, CITES-A, GBNNSIP, LBAP- A, LBAP-C, LBAP-G, WCA1.1	PC
<i>Falco subbuteo</i> (Hobby / Hebog yr Ehedydd)	SJ34	21/07/2014	John Lawton Roberts	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	Bern2, Bonn2, CITES-A, LBAP- C, LBAP-G, WBA, WCA1.1	NA
<i>Ficedula</i> <i>hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ3246	11/06/2011	Neil Hughes	2	Reported to recorder	Sontley, pools	Activity: FF. Survey: Observer data	D0062/008/01	Bonn2, LBAP-C, LBAP-G, LBAP-S, RL-VU, S7, UKBA, WBR	NA
<i>Hipparchia</i> <i>semele</i> (Grayling / Gweirlöyn Llwyd)	SJ311466	5 records, between 27/07/2002 and 07/08/2005	R.W.Whitehead; Adrian R. Jones	4; 1		Bonc-yr-hafod (Picnic Mountain)		D1858/001/02	BAP, LBAP-G, RL-VU, S7	NA
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3146	2 records, between 04/08/2017 and 03/05/2019	Trevor B Taylor; Mrs Norma Williams			Rhosllanerchrugo g, Brick works	BirdTrack	D1297/025/01 , D1297/026/01	BAP, BDir2.2, LBAP-C, LBAP-G, RL-DD, RL-EN, S7, UKBR, WBR	PC
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3247	12/04/2014	Steven Davies			Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-G, RL-DD, RL-EN, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3147	27/06/2009	Jason Newton	1	Reported to recorder	Wrexham, Rhostyllen, S	Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-C, LBAP-G, RL-DD, RL-EN, S7, UKBR, WBR	NA
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3045	04/07/2009	Jason Newton	1	Reported to recorder	Ruabon, New Hall	Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-C, LBAP-G, RL-DD, RL-EN, S7, UKBR, WBR	NA
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3145	24/01/2014	Mark T Breaks	400		Johnstown, SE	BirdTrack	D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-G, RL-DD, RL-EN, S7, UKBR, WBR	PC
<i>Larus argentatus</i> (Herring Gull / Gwylan y Penwaig)	SJ3246 (Approximate)	5 records, between 21/04/2020 and 18/05/2020	Mr James Hughes	3; 14; 20+; 2		Sontley, pools		D1297/039/01	BAP, BDir2.2, LBAP-C, LBAP-G, RL-DD, RL-EN, S7, UKBR, WBR	PC
<i>Lasiommata megera</i> (Wall / Gweirlöyn y Cloddiau)	SJ321465 (Estimated (Centroid of Site))	05/08/1989	Rob W Whitehead	1		Middle Sontley	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	BAP, LBAP-G, RL-NT, S7	NA
<i>Lasiommata megera</i> (Wall / Gweirlöyn y Cloddiau)	SJ311466	7 records, between 31/07/2004 and 03/09/2005	Adrian R. Jones	4 Adult; 1 Adult		Bonc-yr-hafod (Picnic Mountain)		D1373/001/05	BAP, LBAP-G, RL-NT, S7	NA
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ3046	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16443121-106609043	D1852/002/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	PC
<i>Lipsothrix nervosa</i> (Southern Yellow Splinter)	SJ3247	4 records, between 30/07/1980 and 24/05/1994	Chandler, P.J.; Morgan, Mrs M.J.; Alan Stubbs	1; 1 Male		Hafod Wood	Occurrence ID: 128357; Near stream. Occurrence ID: 45910; Occurrence ID: 121134	D1078/001/02 , D0217/001/04	BAP, S7	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3081546215 (Selected from Interactive Map)	25 records, between 02/05/2001 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Karl Martin; Kylie Jones; Matthew Ellis; David Groom; Gail Atkinson;...	1 Age & Sex Unknown; 1 Female; 2 Age & Sex Unknown; 8 Adult (Sex Unknown); 47 Adult (Sex Unknown); 2 Adult Female; 3 Adult (Sex Unknown); 11 Age & Sex Unknown; 14 Adult (Sex Unknown); 2 Adult (Sex ...	Torch Count	Hafod R1: Pond 10		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3089546405 (Selected from Interactive Map)	19 records, between 23/04/2003 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams...	1 Age & Sex Unknown; 13 Age & Sex Unknown; 1 Female; 3 Age & Sex Unknown; 9 Adult (Sex Unknown); 3 Adult (Sex Unknown); 1 Adult (Sex Unknown); 6 Adult (Sex Unknown); 1 Adult Female; 3 Adult (Sex Un...	Torch Count	Hafod R1: Pond 11	Seen in ditch	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3076545885 (Selected from Interactive Map)	20 records, between 14/04/2009 and 17/05/2017	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Kylie Jones - Mattock; Remani Jones; Kate Surry; Nicola Wheeler; Simon Co...	11 Female; 38 Age & Sex Unknown; 1 Age & Sex Unknown; 6 Female; 22 Age & Sex Unknown; 17 Female; 165 Age & Sex Unknown; 2 Female; 10 Female; 330 Age & Sex Unknown; 20 Female; 45 Age & Sex Unknown; ...	Torch Count	Hafod Lagoons: Lagoon 3		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3072545865 (Selected from Interactive Map)	18 records, between 14/04/2009 and 17/05/2017	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Nicola Wheeler; Simon Cope; Kylie Jones - Mattock; Remani Jones; Kate Sur...	16 Age & Sex Unknown; 7 Age & Sex Unknown; 53 Female; 65 Age & Sex Unknown; 3 Female; 16 Age & Sex Unknown; 64 Age & Sex Unknown; 3 Adult (Sex Unknown); 2 Female; 11 Age & Sex Unknown; 2 Female; 16...	Torch Count	Hafod Lagoons: Lagoon 4		D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3094546395 (Selected from Interactive Map)	31 records, between 02/05/2001 and 07/05/2019	Nicola Wheeler; Simon Cope; Nicola Wheeler; Simon Cope; Matthew Ellis; Simon Cope; Nicola Wheeler; Alan Brown; Dave Tomlinson; Matthew Ellis; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; ...	1 Female; 4 Age & Sex Unknown; 3 Female; 2 Age & Sex Unknown; 9 Female; 3 Age & Sex Unknown; 7 Female; 35 Age & Sex Unknown; 9 Adult (Sex Unknown); 11 Adult (Sex Unknown); 10; 3 Adult (Sex Unknown)...	Torch Count/Pitfall trap; Netted	Hafod R1: Pond 02		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3085846385 (Selected from Interactive Map)	37 records, between 02/05/2001 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	1 Female; 4 Age & Sex Unknown; 1 Female; 1 Age & Sex Unknown; 5 Age & Sex Unknown; 17 Adult (Sex Unknown); 15 Adult (Sex Unknown); 120 Adult (Sex Unknown); 24 Adult (Sex Unknown); 36 Adult (Sex Unk...	Torch Count/Pitfall trap; Netted	Hafod R1: Pond 04		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3081546395 (Selected from Interactive Map)	32 records, between 02/05/2001 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	3 Female; 10 Age & Sex Unknown; 4 Age & Sex Unknown; 7 Female; 10 Age & Sex Unknown; 2 Adult (Sex Unknown); 7 Adult (Sex Unknown); 3 Adult (Sex Unknown); 28 Adult (Sex Unknown); 2 Adult Female; 50 ...	Torch Count/Pitfall trap; Netted	Hafod R1: Pond 05		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3078546385 (Selected from Interactive Map)	18 records, between 14/04/2011 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope; Nicola Wheeler; Simon Cope; Matthew Ellis	1 Age & Sex Unknown; 1 Female; 3 Age & Sex Unknown; 5 Age & Sex Unknown; 13 Adult Female; 9 Adult (Sex Unknown); 2 Adult (Sex Unknown); 3 Age & Sex Unknown; 2 Adult Female; 5 Adult (Sex Unknown); 3...	Torch Count	Hafod R1: Pond 05a		D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3077546365 (Selected from Interactive Map)	8 records, between 09/04/2013 and 13/05/2015	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope	5 Female; 9 Age & Sex Unknown; 1 Female; 5 Age & Sex Unknown; 6 Female; 7 Age & Sex Unknown; 8 Female; 2 Adult (Sex Unknown); 10 Age & Sex Unknown; 2 Age & Sex Unknown; 3 Female; 1 Age & Sex Unknown;	Torch Count	Hafod R1: Pond 05b		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3080546365 (Selected from Interactive Map)	38 records, between 02/05/2001 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	3 Age & Sex Unknown; 3 Female; 1 Female; 3 Age & Sex Unknown; 2 Female; 9 Age & Sex Unknown; 3 Adult (Sex Unknown); 2 Adult (Sex Unknown); 26 Adult (Sex Unknown); 2 Adult Female; 8 Adult Female; 6 ...	Torch Count/Pitfall trap; Netted	Hafod R1: Pond 06		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3083546305 (Selected from Interactive Map)	32 records, between 02/05/2001 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	9 Age & Sex Unknown; 2 Age & Sex Unknown; 1 Female; 1 Adult (Sex Unknown); 28 Adult (Sex Unknown); 14 Adult (Sex Unknown); 10 Adult (Sex Unknown); 3 Adult Female; 2 Adult (Sex Unknown); 9 Adult Fem...	Torch Count/Netted	Hafod R1: Pond 08	No larvae recorded	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3081546275 (Selected from Interactive Map)	38 records, between 02/05/2001 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Alan Brown; Dave Tomlinson; Matthew Ellis; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	1 Age & Sex Unknown; 6 Female; 1 Age & Sex Unknown; 3 Female; 2 Age & Sex Unknown; 12 Adult (Sex Unknown); 11 Adult (Sex Unknown); 231 Adult (Sex Unknown); 100 Adult (Sex Unknown); 1 Adult (Sex Unk...	Torch Count/Netted	Hafod R1: Pond 09	No larvae recorded	D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3078546355 (Selected from Interactive Map)	19 records, between 15/05/2008 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Kylie Jones - Mattock; Karl Martin; Kylie Jones - Mattock;...	1 Age & Sex Unknown; 12 Adult Female; 11 Adult (Sex Unknown); 8 Female; 19 Age & Sex Unknown; 3 Female; 2 Adult (Sex Unknown); 1 Female; 3 Age & Sex Unknown; 3 Adult Female; 4 Adult (Sex Unknown); ...	Torch Count/Netted	Hafod R1: Pond 06a		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3094546365 (Selected from Interactive Map)	3 records, between 27/03/2012 and 30/04/2013	Simon Cope; Nicola Wheeler	9 Age & Sex Unknown; 3 Age & Sex Unknown; 3 Female	Torch Count	Hafod R1: Pond 02a (former site)		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3093546415 (Selected from Interactive Map)	20 records, between 02/05/2001 and 09/04/2019	Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams; Pip Perry; Matthew Ellis; Kim Norman; Kylie Jones; Kim...	9 Adult (Sex Unknown); 11 Adult (Sex Unknown); 19 Adult (Sex Unknown); 2 Adult (Sex Unknown); 53 Adult (Sex Unknown); 52 Adult (Sex Unknown); 16 Adult (Sex Unknown); 2 Adult Female; 1 Adult (Sex Un...	Torch Count/Pitfall trap	Hafod R1: Pond 03 (former site)		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3081546335 (Selected from Interactive Map)	13 records, between 02/05/2001 and 10/04/2018	Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams; Pip Perry; Matthew Ellis; Kylie Jones - Mattock; Karl ...	3 Adult (Sex Unknown); 23 Adult (Sex Unknown); 5 Adult (Sex Unknown); 50 Adult (Sex Unknown); 1 Adult Female; 1 Adult (Sex Unknown); Larva/Tadpole; 1 Female; 73 Adult (Sex Unknown); 117 Adult (Sex ...	Torch Count/Pitfall trap; Netted	Hafod R1: Pond 07 (former site)	No larvae recorded	D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3096546415 (Selected from Interactive Map)	20 records, between 10/05/2001 and 10/04/2018	Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams; Pip Perry; Matthew Ellis; Kim Norman; Kylie Jones; Kim Norman; Matthe...	1 Adult (Sex Unknown); 50 Adult (Sex Unknown); 100 Adult (Sex Unknown); 52 Adult (Sex Unknown); 34 Adult (Sex Unknown); 6 Adult Female; 40 Adult (Sex Unknown); 5 Adult (Sex Unknown); Larva/Tadpole; 1	Torch Count/Netted	Hafod R1: Pond 01		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3072546181 (Selected from Interactive Map)	31 records, between 20/04/2004 and 05/05/2021	Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Pip Perry; Rhys Williams; Matthew Ellis; Kim Norman; David Groom; Kylie Jones - Mattock; Karl Martin; Karl Martin; Kylie Jones ...	32 Adult (Sex Unknown); 5 Adult (Sex Unknown); 276 Adult (Sex Unknown); 55 Adult (Sex Unknown); 73 Adult (Sex Unknown); 26 Adult (Sex Unknown); 1 Adult Female; 36 Adult (Sex Unknown); 9 Adult Female;	Torch Count	Aberderfyn: SLH12		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3081946476 (Selected from Interactive Map)	29 records, between 13/04/2006 and 19/05/2021	Matthew Ellis; Kim Norman; Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Kylie Jones - Mattock; Karl Martin; David Groom; Matthew Ellis; Alasdair Thomson; ...	4 Adult (Sex Unknown); 31 Adult (Sex Unknown); 16 Adult (Sex Unknown); 2 Adult (Sex Unknown); 5 Adult (Sex Unknown); 14 Adult (Sex Unknown); 23 Adult (Sex Unknown); 8 Adult (Sex Unknown); 37 Adult ...	Torch Count	Bonc y Hafod Country Park: SLH14	Fish; 3 big fish spotted - previously fish free	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ307459 (Selected from Interactive Map)	9 records, between 05/05/1994 and 23/05/2006	Matthew Ellis; Kim Norman; David Groom; David Groom; Matthew Ellis; Paul Day; Dean Skrabania; Lesley Woodford; Jan Wilkinson; Matthew Ellis; Vanessa Bean	156 Adult (Sex Unknown); 106 Adult (Sex Unknown); 96 Adult (Sex Unknown); 109 Adult (Sex Unknown); 22 Adult (Sex Unknown); 73 Adult (Sex Unknown); 257 Adult (Sex Unknown); 1 Adult Female; 47 Adult ...	Torch Count	Hafod: General	Hafod R1; Hafod R2	D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3077446631 (Selected from Interactive Map)	21 records, between 13/04/2010 and 14/05/2019	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Alasdair Thomson; Kim Norman; Rachael Davis; Alasdair Thomson; Steve R; Alasdair Thomson; Kia	2 Adult (Sex Unknown); 5 Adult (Sex Unknown); 7 Adult (Sex Unknown); 12 Adult (Sex Unknown); 8 Adult (Sex Unknown); 4 Adult (Sex Unknown); 1 Adult (Sex Unknown); 15 Adult (Sex Unknown); 19 Adult (Sex Unknown);	Torch Count	Bonc y Hafod Country Park: SLH19	Stickleback	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3084746980 (Selected from Interactive Map)	29 records, between 14/04/2009 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Alasdair Thomson; Lindsay Bryan; Kim Norman; Alasdair Thomson; Lindsay Bryan; Rachael Davis; ...	6 Adult (Sex Unknown); 12 Adult (Sex Unknown); 5 Adult (Sex Unknown); 9 Adult (Sex Unknown); 16 Adult (Sex Unknown); 18 Adult (Sex Unknown); 2 Adult (Sex Unknown); 14 Adult (Sex Unknown); 15 Adult ...	Torch Count	Bonc y Hafod Country Park: SLH20	Stickleback	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3085547006 (Selected from Interactive Map)	24 records, between 13/04/2010 and 21/04/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Alasdair Thomson; Kim Norman; Lindsay Bryan; Alasdair Thomson; Lindsay Bryan; Rachael Davis; ...	1 Adult (Sex Unknown); 2 Adult (Sex Unknown); 11 Adult (Sex Unknown); 12 Adult (Sex Unknown); 5 Adult (Sex Unknown); 4 Adult (Sex Unknown); 3 Adult (Sex Unknown); 10 Adult (Sex Unknown); 18 Adult ...	Torch Count	Bonc y Hafod Country Park: SLH21	Stickleback	D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3086047025 (Selected from Interactive Map)	23 records, between 14/04/2009 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Lindsay Bryan; Kim Norman; Al...	6 Adult (Sex Unknown); 14 Adult (Sex Unknown); 8 Adult (Sex Unknown); 36 Adult (Sex Unknown); 11 Adult (Sex Unknown); 5 Adult (Sex Unknown); 30 Adult (Sex Unknown); 3 Adult (Sex Unknown); 1 Adult (...)	Torch Count	Bonc y Hafod Country Park: SLH22	Stickleback	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3117246834 (Selected from Interactive Map)	17 records, between 27/04/2010 and 14/05/2019	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Kim Norman; Lindsay Bryan; Alasdair Thomson; St...	2 Adult (Sex Unknown); 1 Adult (Sex Unknown); 5 Adult (Sex Unknown); 10 Adult (Sex Unknown); 19 Adult (Sex Unknown); 3 Adult (Sex Unknown); 29 Adult (Sex Unknown); 11 Adult (Sex Unknown); 7 Adult (...)	Torch Count	Bonc y Hafod Country Park: SLH23		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3079446798 (Selected from Interactive Map)	29 records, between 14/04/2009 and 19/05/2021	Alasdair Thomson; Julie Rose; Kim Norman; Lindsay Bryan; Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Alasdair Thomson; Lindsay Bryan; Kim...	41 Adult (Sex Unknown); 81 Adult (Sex Unknown); 3 Adult (Sex Unknown); 5 Adult (Sex Unknown); 136 Adult (Sex Unknown); 6 Adult (Sex Unknown); 52 Adult (Sex Unknown); 57 Adult (Sex Unknown); 31 Adult...	Torch Count	Bonc y Hafod Country Park: Rail ditch	Stickleback	D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3116646487 (Selected from Interactive Map)	33 records, between 04/05/2006 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; David Groom; Matthew Ellis; Alasdair Thomson; Kim Norman; Rachael Davis; Alasdair Thomson; ...	8 Adult (Sex Unknown); 14 Adult (Sex Unknown); 13 Adult (Sex Unknown); 30 Adult (Sex Unknown); 2 Adult (Sex Unknown); 1 Adult (Sex Unknown); 25 Adult (Sex Unknown); 3 Adult (Sex Unknown); 6 Adult (...)	Torch Count/Netted	Bonc y Hafod Country Park: SLH16		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3117546483 (Selected from Interactive Map)	27 records, between 06/05/2008 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Kylie Jones - Mattock; Karl Martin; Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Steve R; A...	1 Adult (Sex Unknown); 5 Adult (Sex Unknown); 3 Adult (Sex Unknown); 6 Adult (Sex Unknown); 23 Adult (Sex Unknown); 7 Adult (Sex Unknown); 4 Adult (Sex Unknown); 14 Adult (Sex Unknown); 11 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH17		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3077746606 (Selected from Interactive Map)	11 records, between 13/04/2010 and 07/05/2019	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Alasdair Thomson; Lindsay Bryan; Kim Norman; Alasdair Thomson; Steve R; Alasdair Thomson; Ki...	6 Adult (Sex Unknown); 3 Adult (Sex Unknown); 2 Adult (Sex Unknown); 5 Adult (Sex Unknown); 1 Adult (Sex Unknown); 4 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH18	Fish	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3078646218 (Selected from Interactive Map)	16 records, between 10/04/2008 and 06/06/2019	Kylie Jones - Mattock; Karl Martin; Kylie Jones - Mattock; Remani Jones; Kate Surry; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Kim Norman; Paul Furnborough; Kiani Perera; Keely Bi...	5 Adult (Sex Unknown); 3 Adult (Sex Unknown); 15 Adult Female; 4 Adult Female; 8 Adult (Sex Unknown); 5 Adult Female; 16 Adult Female; 1 Adult (Sex Unknown); 9 Adult Female; 26 Adult Female; 5 Adult...	Torch Count	Aberderfyn: SLH12a		D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3078846181 (Selected from Interactive Map)	19 records, between 10/04/2008 and 06/06/2019	Kylie Jones - Mattock; Karl Martin; Paul Furnborough; Tom Hough; Ian Moran; Paul Furnborough; Kylie Jones - Mattock; Remani Jones; Kate Surry; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wi...	1 Adult (Sex Unknown); 5 Adult (Sex Unknown); 1 Adult Male; 5 Adult Female; 1 Adult (Sex Unknown); 7 Female; 2 Age & Sex Unknown; 2 Adult (Sex Unknown); 15 Adult Female; 2 Adult (Sex Unknown); 33 A...	Torch Count	Aberderfyn: SLH12b		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3079246468 (Selected from Interactive Map)	19 records, between 04/05/2006 and 19/05/2021	Kylie Jones - Mattock; Karl Martin; Alasdair Thomson; Lindsay Bryan; David Groom; Matthew Ellis; Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; ...	3 Adult (Sex Unknown); 12 Adult (Sex Unknown); 6 Adult (Sex Unknown); 2 Adult (Sex Unknown); 31 Adult (Sex Unknown); 1 Adult (Sex Unknown); 18 Adult (Sex Unknown); 16 Adult (Sex Unknown); 22 Adult ...	Torch Count	Bonc y Hafod Country Park: SLH13	Lots of fish; Fish pond; 2 large eels 60cm +	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3076046160 (Selected from Interactive Map)	16 records, between 14/04/2009 and 05/05/2021	Paul Furnborough; Tom Hough; Ian Moran; Paul Furnborough; Kylie Jones - Mattock; Remani Jones; Kate Surry; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Ian Moran; Paul Furnborough; S...	1 Adult Female; 7 Female; 2 Adult Female; 4 Adult Female; 1 Adult (Sex Unknown); 24 Adult Female; 7 Adult Female; 3 Adult Female; 5 Adult Female; 10 Female; 25 Age & Sex Unknown	Torch Count; Terrestrial disturbance	Aberderfyn: SLH12c		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3105847100 (Selected from Interactive Map)	3 records, between 12/04/2016 and 10/04/2018	Alasdair Thomson; Lindsay Bryan	2 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH23b		D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ308463 (Selected from Interactive Map)	9 records, between 23/04/2003 and 14/09/2010	Simon Cope; Matthew Ellis, Alan Brown, D. Tomlinson, Ian Hughes, Rachel Watson; Anon; Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry; Recorder Name Withheld	5 Larvae; 263; 96; 156; 22; 164; 356; 1 adult; 3 adult		Hafod Quarry R1	SLH-04 & -05; Torch survey of 17 ponds; Torch survey of 11 ponds; Torch survey of 12 ponds; Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1117/001/01 , D1314/003/01 , D0026/279/01 , D1314/002/01 , D1314/004/01 , D1737/003/01	Bern3, WCA5	PC, NA
<i>Lissotriton</i>	SJ308462 (Selected from Interactive Map)	4 records, between 17/04/2007 and 14/09/2010	Simon Cope; Anon; Anon - CCW	2 Larvae; 24; 6; 39		Hafod Quarry R1	SLH-09; Torch survey of 11 ponds	D1117/001/01 , D1314/006/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ307458 (Selected from Interactive Map)	14/09/2010	Simon Cope	3 Larvae		Hafod Quarry lagoons	SLH-38 & -39	D1117/001/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ310463 (Supplied by Original Recorder (Checked))	11/05/1999	Jacinta Challinor, Matthew Ellis	15		Johnstown; Dennis of Ruabon - Fire Pool	Torch survey of 1 pond through fence	D0026/036/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ308455 (Supplied by Original Recorder (Checked))	4 records, between 11/05/1999 and 23/05/2006	Jacinta Challinor, Matthew Ellis; Anon	48; 40; 109; 106		Johnstown; Hafod Quarry	Torch survey of 12 ponds	D0026/036/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30834630 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	10; 28		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH08	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30804627 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	100+; 11		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH09	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ30904639 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	1; 9		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH11	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30944638 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	10; 9		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH02	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30924641 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	2; 11		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH03	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30854638 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	24; 15		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH04	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30814638 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	28; 7		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH05	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30814636 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	26; 3		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH06	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30814633 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	50; 23		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH07	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30954641 (Estimated (From Recorder's Map))	2 records, between 23/04/2003 and 21/04/2005	Philippa Perry, Gael Atkinson; Matthew Ellis, Alan Brown, D. Tomlinson	100+; 1		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH01	Torch survey	D1320/003/01 , D0026/279/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30724618 (Estimated (From Recorder's Map))	21/04/2005	Philippa Perry, Gael Atkinson	5		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH12	Torch survey	D1320/003/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30814622 (Estimated (Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	47		Johnstown; Hafod Mitigation Pools; Pond 10		D0026/279/01	Bern3, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3076046127 (Selected from Interactive Map)	18 records, between 30/04/2009 and 05/05/2021	Kate Surry; Kylie Jones - Mattock; Remani Jones; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Kim Norman; Paul Furnborough; Kiani Perera; Keely Bigland; Ian Moran; Paul Furnborough; ...	1 Adult (Sex Unknown); 23 Adult Female; 4 Adult Female; 18 Female; 2 Adult (Sex Unknown); 1 Egg; 13 Adult Female; 2 Adult Male; 15 Adult Female; 13 Adult Female; 2 Adult (Sex Unknown); 3 Adult Fema...	Torch Count	Aberderfyn: SLH12d		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3105846425 (Selected from Interactive Map)	2 records, between 10/05/2007 and 13/04/2010	Alasdair Thomson; Kia Thomas; Steve R; Anon; Matthew McInyre; Paul Christie; Kylie Jones - Mattock	7 Adult (Sex Unknown); 23 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH15		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ30824625 (Supplied by Original Recorder)	11/05/2011	Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day	1 Age & Sex Unknown	Torch Count	Hafod R1: Pond 10a (former site)		D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ30824623 (Supplied by Original Recorder)	04/08/2008	Kylie Jones - Mattock	Larva/Tadpole	Netted	Hafod R1: Pond 10b (former site)	No larvae recorded	D1320/014/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3072546099 (Selected from Interactive Map)	15 records, between 18/04/2013 and 05/05/2021	Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Keely Bigland; Kiani Perera; Kim Norman; Paul Furnborough; Ian Moran; Paul Furnborough; Paul Furnborough; Paul Furnborough; Stephen Smith...	21 Adult Female; 2 Adult Female; 5 Female; 2 Adult (Sex Unknown); 4 Adult Female; 5 Adult (Sex Unknown); 21 Adult Female; 3 Adult (Sex Unknown); 7 Adult Female; 4 Adult (Sex Unknown); 1 Adult (Sex ...	Torch Count; Terrestrial disturbance	Aberderfyn: SLH12e		D1320/014/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3080146290	23/04/2003	Recorder Name Withheld	11 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3080246372	23/04/2003	Recorder Name Withheld	23 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3080746339	23/04/2003	Recorder Name Withheld	7 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3080946204	23/04/2003	Recorder Name Withheld	9 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3081646395	23/04/2003	Recorder Name Withheld	28 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3083246304	23/04/2003	Recorder Name Withheld	15 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3085746388	23/04/2003	Recorder Name Withheld	11 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3090546398	23/04/2003	Recorder Name Withheld	47 adult		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton</i>	SJ3094146392	23/04/2003	Recorder Name Withheld	9 adult		Hafod Mitigation Ponds	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Recorded as <i>Lissotriton helveticus/vulgaris</i> . Source: Old ARC database	D1737/003/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3085046392 (GPS Reading)	05/08/2003	Jan Wilkinson	Tadpole/Larvae/Eft		Pond SLH4 - Hafod Mitigation Ponds	<i>T. vulgaris</i> & <i>T. helveticus</i>	D1045/001/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3093946423 (GPS Reading)	05/08/2003	Jan Wilkinson	Tadpole/Larvae/Eft		Pond SLH3 - Hafod Mitigation Ponds	<i>T. helveticus</i> & <i>T. vulgaris</i>	D1045/001/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ3096146404 (GPS Reading)	05/08/2003	Jan Wilkinson	Tadpole/Larvae/Eft		Pond SLH1 - Hafod Mitigation Ponds	<i>T. helveticus</i> & <i>T. vulgaris</i>	D1045/001/01	Bern3, WCA5	NA
<i>Lissotriton</i>	SJ30684607 (Selected from Interactive Map)	04/10/2019	Kate Wilson	3 Adult		Aberderfyn	Rescued from culvert during flood alleviation work surveys.	D1531/001/01	Bern3, WCA5	PC
<i>Lissotriton</i>	SJ30694607 (Selected from Interactive Map)	09/10/2019	Kate Wilson	1 Adult; 1 Sub-adult		Aberderfyn	Rescued from a shaft in the culvert during flood alleviation works	D1531/001/01	Bern3, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3077546365 (Selected from Interactive Map)	2 records, between 14/04/2011 and 28/04/2015	Simon Cope; Nicola Wheeler	1 Male; 1 Male; 4 Age & Sex Unknown	Torch Count	Hafod R1: Pond 05b		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3072545865 (Selected from Interactive Map)	9 records, between 14/04/2009 and 17/05/2017	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Kylie Jones - Mattock; Remani Jones; Kate Surry; Nicola Wheeler; Simon Co...	1 Male; 2 Male; 4 Adult Male; 3 Male; 6 Female; 3 Age & Sex Unknown; 3 Adult Male; 1 Adult Male	Torch Count	Hafod Lagoons: Lagoon 4		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3089546405 (Selected from Interactive Map)	2 records, between 23/04/2003 and 13/05/2015	Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Alan Brown; Dave Tomlinson	1 Male; 1 Adult Male	Torch Count	Hafod R1: Pond 11		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3076545885 (Selected from Interactive Map)	8 records, between 30/04/2009 and 03/05/2017	Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Nicola Wheeler; Kylie Jones - Mattock; Remani Jones; Kate Surry; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day	3 Male; 5 Male; 1 Adult Male; 13 Male; 13 Female; 12 Age & Sex Unknown; 3 Male; 1 Age & Sex Unknown; 1 Male; 4 Male; 2 Adult Male	Torch Count	Hafod Lagoons: Lagoon 3		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3094546365 (Selected from Interactive Map)	2 records, between 27/03/2012 and 30/04/2013	Simon Cope; Nicola Wheeler	1 Male	Torch Count	Hafod R1: Pond 02a (former site)		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3093546415 (Selected from Interactive Map)	5 records, between 23/04/2003 and 11/05/2011	Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Kim Norman; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Karl Martin; Matthew McNytire; Kylie Jones - M...	2 Adult Male; 1 Male; 1 Age & Sex Unknown; 2 Male	Torch Count	Hafod R1: Pond 03 (former site)		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3085846385 (Selected from Interactive Map)	7 records, between 23/04/2003 and 07/05/2019	Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Kylie Jones - Mattock; Karl Martin; Nicola Wheeler; Simon Cope; Kylie Jones - Mattock; Kate Surry; Remani Jones; Rachel Jarvis; Simon Cope;...	2 Adult Male; 1 Adult Male; 1 Adult Female; 1 Male; 1 Female; 1 Adult Male; 1 Male	Torch Count	Hafod R1: Pond 04		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3081546335 (Selected from Interactive Map)	4 records, between 23/04/2003 and 14/04/2011	Matthew Ellis; Alan Brown; Dave Tomlinson; Karl Martin; Kylie Jones - Mattock; Nicola Wheeler; Simon Cope; Kylie Jones - Mattock; Remani Jones; Rachel Jarvis	1 Adult Male; 1 Age & Sex Unknown	Torch Count	Hafod R1: Pond 07 (former site)		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3096546415 (Selected from Interactive Map)	8 records, between 20/04/2004 and 25/05/2011	Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Kylie Jones - Mattock; Karl Martin; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Simon Cope...	2 Adult Male; 9 Adult Male; 6 Adult Female; 1 Male; 3 Female; 4 Age & Sex Unknown; 5 Male; 3 Female; 8 Male; 4 Adult Male; 1 Adult Male; 1 Adult Male; 2 Adult Female	Torch Count	Hafod R1: Pond 01		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3081546275 (Selected from Interactive Map)	13 records, between 20/04/2004 and 09/04/2019	Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Kylie Jones - Mattock; Karl Martin; Matthew El...	2 Adult Male; 1 Male; 4 Male; 1 Adult Male; 1 Female; 3 Age & Sex Unknown; 3 Male; 1 Female; 2 Male; 3 Adult Male; 7 Adult Female; 1 Adult (Sex Unknown); 3 Adult Male; 1 Adult Female; 15 Adult Male	Torch Count	Hafod R1: Pond 09		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3081546215 (Selected from Interactive Map)	8 records, between 21/04/2005 and 07/05/2019	Rhys Williams; Pip Perry; Simon Cope; Nicola Wheeler; Kylie Jones - Mattock; Remani Jones; Rachel Jarvis; Matthew Ellis; Kylie Jones - Mattock; Kate Surry; Remani Jones; Rachel Jarvis	4 Adult Male; 1 Adult Female; 1 Male; 2 Adult Female; 1 Adult Male; 2 Adult Male	Torch Count	Hafod R1: Pond 10		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3072546181 (Selected from Interactive Map)	14 records, between 21/04/2005 and 05/05/2021	Pip Perry; Rhys Williams; Matthew Ellis; Kim Norman; David Groom; Karl Martin; Kylie Jones - Mattock; Kylie Jones - Mattock; Karl Martin; Paul Furnborough; Ian Moran; Kylie Jones - Mattock; Kylie J...	1 Adult Male; 23 Adult Female; 18 Adult (Sex Unknown); 2 Adult Male; 9 Adult Male; 2 Adult Female; 15 Adult (Sex Unknown); 1 Adult Male; 5 Adult Male; 8 Adult Female; 2 Male; 3 Adult Female; 3 Adul...	Torch Count	Aberderfyn: SLH12		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ307459 (Selected from Interactive Map)	8 records, between 08/06/1993 and 13/04/2006	Matthew Ellis; Kim Norman; David Groom; David Groom; Kim Norman; Matthew Ellis; Matthew Ellis; Paul Day; Dean Skrabania; Lesley Woodford; Dean Skrabania; Lesley Woodford; Jan Wilkinson; Matthew Ell...	3 Adult Male; 5 Adult (Sex Unknown); 130 Adult (Sex Unknown); 71 Adult Male; 26 Adult Female; 8 Adult (Sex Unknown); 45 Adult (Sex Unknown); 10 Adult Male; 3 Adult Female; 1 Adult (Sex Unknown); 3 ...	Torch Count	Hafod: General	Hafod R1; Hafod R2	D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3083546305 (Selected from Interactive Map)	7 records, between 10/04/2008 and 10/04/2018	Kylie Jones; Kim Norman; Matthew Ellis; Kylie Jones - Mattock; Karl Martin; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler	1 Adult Male; 2 Adult Male; 1 Male; 6 Adult Male; 3 Adult Male	Torch Count	Hafod R1: Pond 08		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3078646218 (Selected from Interactive Map)	8 records, between 06/05/2008 and 06/06/2019	Kylie Jones - Mattock; Karl Martin; Kylie Jones - Mattock; Remani Jones; Kate Surry; Kylie Jones - Mattock; Remani Jones; Rachel Price; Karl Martin; Kim Norman; Kim Norman; Leah Williams; Kate Wils...	1 Adult Male; 2 Adult Male	Torch Count	Aberderfyn: SLH12a		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3078846181 (Selected from Interactive Map)	9 records, between 30/04/2019 and 06/06/2019	Paul Furnborough; Tom Hough; Kylie Jones - Mattock; Remani Jones; Kate Surry; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Kim Norman; Paul Furnborough; Kiani Perera; Keely Bigland; ...	1 Adult Male; 2 Adult Male; 1 Adult Female; 2 Adult Male	Torch Count	Aberderfyn: SLH12b		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3078546355 (Selected from Interactive Map)	5 records, between 14/04/2011 and 07/05/2019	Matthew Ellis; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler	1 Adult Male; 4 Adult Male; 3 Male; 2 Female; 4 Age & Sex Unknown; 2 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 06a		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3080546365 (Selected from Interactive Map)	12 records, between 14/04/2009 and 07/05/2019	Matthew Ellis; Nicola Wheeler; Simon Cope; Kylie Jones - Mattock; Remani Jones; Rachel Jarvis; Kylie Jones - Mattock; Kate Surry; Remani Jones; Rachel Jarvis; Simon Cope; Nicola Wheeler; Nicola Whe...	1 Adult Male; 1 Adult Female; 4 Adult Male; 2 Male; 1 Female; 1 Adult Male; 2 Adult Male; 1 Male; 3 Male; 3 Adult Male; 5 Adult Male	Torch Count	Hafod R1: Pond 06		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3076046160 (Selected from Interactive Map)	3 records, between 10/04/2018 and 05/05/2021	Ian Moran; Paul Furnborough; Ian Moran; Paul Furnborough; Emma Ellis	1 Male; 1 Adult Male; 5 Male	Torch Count	Aberderfyn: SLH12c		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ308455 (Supplied by Original Recorder (Checked))	3 records, between 05/03/1999 and 13/04/2006	Anon; Jacinta Challinor, Matthew Ellis	3; 14; 18 ; 5 Male		Johnstown; Hafod Quarry	Torch survey of 2 ponds; Torch survey of 12 ponds	D0026/036/01 , D0026/279/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ30724618 (Estimated (From Recorder's Map))	21/04/2005	Philippa Perry, Gael Atkinson	18 ; 1 Male; 23 Female		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH12	Torch survey	D1320/003/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ30814622 (Estimated (From Recorder's Map))	21/04/2005	Philippa Perry, Gael Atkinson	4 Male; 1 Female		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH10	Torch survey	D1320/003/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ308463 (Supplied by Original Recorder (Checked))	3 records, between 14/05/2003 and 13/04/2006	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry; Anon	5; 47; 3 Male		SSSI: Stryt Las a'r Hafod	Torch survey of 11 ponds; Torch survey of 12 ponds	D1314/002/01 , D1314/004/01 , D0026/279/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ308462 (Estimated (Centroid of Site))	3 records, between 17/04/2007 and 23/05/2007	Anon - CCW; Anon	3; 12		SSSI: Stryt Las a'r Hafod; Hafod R1 Mitigation Site	Torch survey of 11 ponds	D1314/006/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ30904639 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	1 Male		Johnstown; Hafod Mitigation Pools; Pond 11		D0026/279/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ30814633 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	Male		Johnstown; Hafod Mitigation Pools; Pond 7		D0026/279/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ30924641 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	2 Male		Johnstown; Hafod Mitigation Pools; Pond 3		D0026/279/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ30854638 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	2 Male		Johnstown; Hafod Mitigation Pools; Pond 4		D0026/279/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3079246468 (Selected from Interactive Map)	04/05/2006	David Groom; Matthew Ellis	5 Adult Male; 2 Adult Female	Torch Count	Bonc y Hafod Country Park: SLH13		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3094546395 (Selected from Interactive Map)	5 records, between 10/05/2007 and 17/05/2017	Kylie Jones - Mattock; Karl Martin; Nicola Wheeler; Simon Cope; Kylie Jones - Mattock; Kate Surry; Remani Jones; Rachel Jarvis; Kylie Jones - Mattock; Paul Christie; Matthew McNytire; Nicola Wheeler;	5 Adult Male; 8 Adult Female; 11 Female; 11 Age & Sex Unknown; 2 Adult Male; 6 Adult Male; 3 Adult Male	Torch Count	Hafod R1: Pond 02		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3081546395 (Selected from Interactive Map)	8 records, between 15/05/2008 and 09/04/2019	Kylie Jones - Mattock; Karl Martin; Matthew Ellis; Simon Cope; Nicola Wheeler; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Kylie Jones - Mattock; Remani Jones; ...	1 Adult Male; 2 Adult Male; 1 Male; 2 Male; 1 Adult Male; 1 Adult (Sex Unknown); 4 Adult Male; 3 Adult Male; 1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 05		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ30824625 (Supplied by Original Recorder)	14/04/2011	Simon Cope; Nicola Wheeler	1 Female; 3 Age & Sex Unknown	Torch Count	Hafod R1: Pond 10a (former site)		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3072546099 (Selected from Interactive Map)	6 records, between 23/05/2013 and 05/05/2021	Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Ian Moran; Paul Furnborough; Paul Furnborough; Paul Furnborough; Stephen Smith; Remani Jones; Julie Rose; Kate Wilson; Paul Furnborough; ...	3 Adult Male; 1 Male; 1 Adult Male; 2 Adult Male; 3	Torch Count	Aberderfyn: SLH12e		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3076046127 (Selected from Interactive Map)	6 records, between 12/04/2017 and 05/05/2021	Ian Moran; Paul Furnborough; Ian Moran; Paul Furnborough; Emma Ellis; Paul Furnborough; Tom Hough; Charlie Philp; Paul Furnborough; Tom Hough	5 Male; 5 Adult Male; 1 Adult Male; 2 Male; 2 Adult Male	Torch Count	Aberderfyn: SLH12d		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3080146290	23/04/2003	Recorder Name Withheld	2 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3094146392	23/04/2003	Recorder Name Withheld	1 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3078546385 (Selected from Interactive Map)	3 records, between 27/03/2012 and 03/05/2017	Simon Cope; Nicola Wheeler	2 Male; 2 Adult Male; 1 Adult Male	Torch Count	Hafod R1: Pond 05a		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3116646487 (Selected from Interactive Map)	14/04/2009	Kylie Jones - Mattock; Remani Jones; Rachel Jarvis	2 Adult Female	Torch Count	Bonc y Hafod Country Park: SLH16		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3077446631 (Selected from Interactive Map)	14/04/2009	Kylie Jones - Mattock; Remani Jones; Rachel Jarvis	1 Adult Male	Torch Count	Bonc y Hafod Country Park: SLH19		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3081946476 (Selected from Interactive Map)	23/05/2007	Karl Martin	1 Adult Female	Torch Count	Bonc y Hafod Country Park: SLH14		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton helveticus</i> (Palmate Newt / Madfall Ddwr Balfog)	SJ3105846425 (Selected from Interactive Map)	10/05/2007	Matthew McIntyre; Paul Christie; Kylie Jones - Mattock	6 Adult Male	Torch Count	Bonc y Hafod Country Park: SLH15		D1320/014/01	Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3076545885 (Selected from Interactive Map)	18 records, between 30/04/2009 and 03/05/2017	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Kate Surry; Kylie Jones - Mattock; Remani Jones; Nicola Wheeler; Simon Co...	4 Male; 1 Male; 13 Male; 3 Female; 48 Male; 1 Female; 3 Male; 64 Male; 9 Adult Male; 10 Male; 8 Female; 2 Age & Sex Unknown; 14 Male; 13 Female; 5 Age & Sex Unknown; 9 Male; 5 Age & Sex Unknown; 15...	Torch Count	Hafod Lagoons: Lagoon 3		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3072545865 (Selected from Interactive Map)	15 records, between 14/04/2009 and 17/05/2017	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Kate Surry; Kylie Jones - Mattock; Remani Jones; Nicola Wheeler; Simon Co...	3 Male; 6 Male; 2 Male; 1 Male; 1 Male; 3 Female; 1 Adult Male; 6 Male; 3 Age & Sex Unknown; 1 Age & Sex Unknown; 23 Adult Male; 18 Adult Male; 36 Adult Male	Torch Count	Hafod Lagoons: Lagoon 4		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3094546395 (Selected from Interactive Map)	18 records, between 20/04/2004 and 03/05/2017	Simon Cope; Nicola Wheeler; Nicola Wheeler; Simon Cope; Matthew Ellis; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Matthew Ellis; Kim Norman; Simon Cope; Nicola Wheeler; M...	1 Male; 3 Male; 5 Male; 3 Adult Male; 2 Adult Male; 2 Male; 19 Adult Male; 11 Adult Female; 7 Male; 3 Male; 2 Female; 1 Adult Male; 6 Male; 4 Male; 5 Adult Male	Torch Count; Not Applicable	Hafod R1: Pond 02		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3081546395 (Selected from Interactive Map)	19 records, between 23/04/2003 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Alan Brown; Dave Tomlinson; Kylie Jones; Kim Norman; Karl Martin; Kylie Jones; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Kylie J...	3 Male; 2 Male; 1 Adult Male; 3 Adult Male; 5 Adult Male; 13 Adult Male; 1 Male; 4 Adult Male; 9 Male; 2 Female; 9 Adult Male; 5 Male; 2 Adult Male; 33 Adult Male	Torch Count	Hafod R1: Pond 05		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3078546385 (Selected from Interactive Map)	14 records, between 14/04/2011 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope	1 Male; 2 Male; 5 Male; 7 Adult Male; 1 Adult Male; 2 Female; 3 Male; 3 Adult Male; 4 Male; 2 Adult Male	Torch Count	Hafod R1: Pond 05a		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3077546365 (Selected from Interactive Map)	7 records, between 14/04/2011 and 13/05/2015	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope	4 Male; 1 Male; 13 Male; 2 Male	Torch Count	Hafod R1: Pond 05b		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3080546365 (Selected from Interactive Map)	23 records, between 20/04/2004 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Kylie Jones; Kim Norman; Karl Martin; Kylie Jones; Matthew Ellis; Matthew Ellis; Nicola Wheeler; Paul	1 Male; 20 Adult (Sex Unknown); 8 Adult Male; 2 Adult Female; 7 Adult Male; 2 Adult Female; 2 Adult Male; 2 Male; 12 Adult Male; 3 Male; 1 Female; 3 Female; 1 Adult Male; 5 Adult Male; 4 Adult Male...	Torch Count	Hafod R1: Pond 06		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3083546305 (Selected from Interactive Map)	23 records, between 23/04/2003 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Kylie Jones; ...	5 Male; 1 Male; 2 Adult (Sex Unknown); 25 Adult (Sex Unknown); 1 Adult Male; 2 Adult Female; 4 Adult Male; 1 Adult Male; 7 Adult Male; 3 Adult Male; 4 Male; 2 Female; 3 Male; 8 Adult Male; 1 Adult ...	Torch Count	Hafod R1: Pond 08		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3081546275 (Selected from Interactive Map)	24 records, between 20/04/2004 and 07/05/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Kylie Jones; Kim Norman; Matthew Ellis; Nicola Wheeler; ...	1 Male; 54 Adult (Sex Unknown); 1 Adult Male; 16 Adult Male; 13 Male; 4 Female; 2 Male; 10 Adult Male; 5 Adult Male; 6 Male; 1 Female; 7 Male; 4 Female; 1 Age & Sex Unknown; 8 Male; 4 Adult Male; 3...	Torch Count	Hafod R1: Pond 09		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3089546405 (Selected from Interactive Map)	10 records, between 23/04/2003 and 13/05/2015	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Alan Brown; Dave Tomlinson; Karl Martin; Kylie Jones; Matthew Ellis; David Groom; Gail Atkinson; Kylie Jones - ...	1 Male; 4 Male; 1 Female; 2 Adult (Sex Unknown); 1 Adult Male; 12 Adult Male; 8 Adult Female; 3 Female; 2 Adult Male; 2 Adult Female; 2 Adult (Sex Unknown); 4 Adult Male; 5 Adult Female	Torch Count	Hafod R1: Pond 11		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3094546365 (Selected from Interactive Map)	3 records, between 27/03/2012 and 13/05/2014	Simon Cope; Nicola Wheeler	1 Male; 2 Male	Torch Count	Hafod R1: Pond 02a (former site)		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3085846385 (Selected from Interactive Map)	22 records, between 23/04/2003 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Kylie Jones; Kim Norman; Karl Martin; Kylie Jones; Matthew	1 Male; 2 Adult (Sex Unknown); 2 Adult Male; 3 Adult (Sex Unknown); 5 Adult Male; 2 Adult Female; 2 Male; 3 Male; 1 Adult Female; 3 Adult Male; 3 Age & Sex Unknown; 4 Adult Male; 6 Adult Male; 1 Ad...	Torch Count	Hafod R1: Pond 04		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3078546355 (Selected from Interactive Map)	11 records, between 30/04/2009 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew Ellis; Kim Norman; Paul Day; Kylie Jo...	6 Male; 2 Adult Male; 8 Male; 12 Adult Male; 5 Male; 4 Female; 1 Male; 6 Female; 2 Age & Sex Unknown; 2 Male; 3 Adult Male; 1 Female; 1 Adult Male	Torch Count	Hafod R1: Pond 06a		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3096546415 (Selected from Interactive Map)	11 records, between 23/04/2003 and 25/05/2011	Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Kylie Jones; Kim Norman; Matthew Ellis; David Groom; Gail Atkinson; Kylie Jones - Ma...	1 Adult Male; 4 Adult Male; 3 Adult Male; 1 Adult Female; 2 Adult Male; 16 Adult Male; 19 Adult Female; 5 Male; 2 Female; 1 Age & Sex Unknown; 5 Male; 4 Female; 1 Age & Sex Unknown; 3 Male; 3 Adult...	Torch Count	Hafod R1: Pond 01		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3093546415 (Selected from Interactive Map)	7 records, between 23/04/2003 and 30/04/2009	Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Matthew Ellis; Kim Norman; Kylie Jones; Kim Norman; Karl Martin; Kylie Jones; Matthe...	11 Adult Male; 1 Adult Female; 4 Adult Male; 1 Adult Male; 2 Adult Male; 4 Adult (Sex Unknown); 3 Adult Male; 6 Adult Female	Torch Count	Hafod R1: Pond 03 (former site)		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3081546335 (Selected from Interactive Map)	2 records, between 23/04/2003 and 20/04/2004	Matthew Ellis; Alan Brown; Dave Tomlinson; Alan Brown; Dave Tomlinson; Ian Hughes; Matthew Ellis; Rhys Williams	1 Adult Male; 9 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 07 (former site)		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3081546215 (Selected from Interactive Map)	15 records, between 23/04/2003 and 07/05/2019	Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Kylie Jones; Kim Norman; Karl Martin; Kylie Jones; Simon Cope; Nicola Wheeler; Nicol...	5 Adult Male; 4 Adult (Sex Unknown); 4 Adult Male; 8 Adult Female; 1 Adult Male; 1 Adult Female; 1 Male; 1 Female; 2 Male; 1 Adult Male; 4 Adult Male; 1 Adult Female; 1 Male; 3 Adult Male; 2 Adult ...	Torch Count	Hafod R1: Pond 10		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3072546181 (Selected from Interactive Map)	26 records, between 21/04/2005 and 05/05/2021	Pip Perry; Rhys Williams; Matthew Ellis; Kim Norman; David Groom; Kylie Jones - Mattock; Karl Martin; Karl Martin; Kylie Jones - Mattock; Paul Furnborough; Ian Moran; Kylie Jones - Mattock; Kate Su...	17 Adult Male; 2 Adult Female; 7 Adult Male; 27 Adult Male; 16 Adult Female; 63 Adult (Sex Unknown); 24 Adult Male; 4 Adult Male; 12 Adult Male; 10 Adult Male; 11 Male; 67 Adult Male; 39 Adult Fema...	Torch Count	Aberderfyn: SLH12		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ307459 (Selected from Interactive Map)	12 records, between 08/06/1993 and 23/05/2006	Matthew Ellis; Kim Norman; David Groom; David Groom; Kim Norman; Matthew Ellis; David Groom; Matthew Ellis; Paul Day; Dean Skrabania; Lesley Woodford; Dean Skrabania; Lesley Woodford; Jan Wilkinson...	21 Adult Male; 34 Adult (Sex Unknown); 45 Adult Male; 5 Adult (Sex Unknown); 18 Adult Male; 1 Adult Female; 15 Adult Male; 5 Adult Female; 24 Adult Male; 93 Adult (Sex Unknown); 54 Ad...	Torch Count	Hafod: General	Hafod R1; Hafod R2	D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3078646218 (Selected from Interactive Map)	13 records, between 10/04/2008 and 19/05/2015	Kylie Jones - Mattock; Karl Martin; Kylie Jones - Mattock; Remani Jones; Kate Surry; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Kim Norman; Paul Furnborough; Kiani Perera; Keely Bi...	2 Adult Male; 3 Adult Female; 1 Adult Male; 4 Adult Male; 12 Adult Male; 39 Adult Male; 21 Adult Male; 7 Adult Male; 2 Adult Male	Torch Count	Aberderfyn: SLH12a		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3076046160 (Selected from Interactive Map)	12 records, between 30/04/2009 and 05/05/2021	Paul Furnborough; Tom Hough; Ian Moran; Paul Furnborough; Kylie Jones - Mattock; Remani Jones; Kate Surry; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Ian Moran; Paul Furnborough; S...	1 Adult Male; 3 Male; 18 Adult Male; 3 Adult Male; 1 Adult Female; 2 Adult Male; 7 Male	Torch Count	Aberderfyn: SLH12c		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3078846181 (Selected from Interactive Map)	14 records, between 30/04/2009 and 08/05/2018	Paul Furnborough; Tom Hough; Ian Moran; Paul Furnborough; Kate Surry; Kylie Jones - Mattock; Remani Jones; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Kim Norman; Paul Furnborough; ...	4 Adult Male; 3 Male; 3 Adult Male; 3 Adult Female; 9 Adult Male; 1 Adult (Sex Unknown); 39 Adult Male; 1 Adult Male; 2 Adult Male; 32 Adult Male; 11 Adult Male; 7 Adult Male; 1 Adult Male; 1 Adult...	Torch Count	Aberderfyn: SLH12b		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ308455 (Estimated Centroid of Site))	5 records, between 05/03/1999 and 23/05/2006	Anon; Jacinta Challinor, Matthew Ellis	5 ; 45 Male; 15 Male; 14 Male; 2; 40		Wrexham; Hafod Quarry	Torch survey of 2 ponds; Torch survey of 12 ponds	D0026/279/01 , D0026/036/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ308463 (Estimated Centroid of Site))	6 records, between 23/04/2003 and 23/05/2006	Anon; Philippa Perry; Matthew Ellis, Alan Brown, D. Tomlinson; Recorder Name Withheld	5 Male; 1 Female; 18 Male; 1 Female; 34 ; 21 Male; 19; 24; 1 adult M		Wrexham; Hafod Mitigation Area	Torch survey of 12 ponds; Torch survey of 11 ponds; Torch model: Clulite Cb2. Pond suitability for torching; moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D0026/279/01 , D1314/004/01 , D1314/002/01 , D1737/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC, NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30814638 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	1 Male		Johnstown; Hafod Mitigation Pools; Pond 5		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30854638 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	2 Male		Johnstown; Hafod Mitigation Pools; Pond 4		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30924641 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	11 Male		Johnstown; Hafod Mitigation Pools; Pond 3		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30954641 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	1 Male		Johnstown; Hafod Mitigation Pools; Pond 1		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30834630 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	2 Male		Johnstown; Hafod Mitigation Pools; Pond 8		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30814622 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	5 Male		Johnstown; Hafod Mitigation Pools; Pond 10		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30904639 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	2 Male		Johnstown; Hafod Mitigation Pools; Pond 11		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30814633 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	Male		Johnstown; Hafod Mitigation Pools; Pond 7		D0026/279/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ308462 (Estimated Centroid of Site))	3 records, between 17/04/2007 and 23/05/2007	Anon - CCW; Anon	4; 9; 39		SSSI: Stryt Las a'r Hafod; Hafod R1 Mitigation Site	Torch survey of 11 ponds	D1314/006/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30724618 (Estimated (From Recorder's Map))	21/04/2005	Philippa Perry, Gael Atkinson	17 Male; 2 Female		SSSI: Stryt Las a'r Hafod; Hafod Mitigation Area; Pond SLH12	Torch survey	D1320/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3116646487 (Selected from Interactive Map)	04/05/2006	David Groom; Matthew Ellis	1 Adult Male	Torch Count	Bonc y Hafod Country Park: SLH16		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3076046127 (Selected from Interactive Map)	15 records, between 18/04/2013 and 05/05/2021	Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Kim Norman; Paul Furnborough; Kiani Perera; Keely Bigland; Ian Moran; Paul Furnborough; Ian Moran; Paul Furnborough; Stephen Smith; Paul ...	21 Adult Male; 7 Adult Male; 8 Male; 4 Adult Male; 6 Adult Male; 27 Adult Male; 10 Adult Female; 4 Adult (Sex Unknown); 1 Adult Male; 4 Adult Female; 7 Male; 14 Adult Male; 5 Adult Male	Torch Count	Aberderfyn: SLH12d		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3072546099 (Selected from Interactive Map)	11 records, between 18/04/2013 and 05/05/2021	Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Ian Moran; Paul Furnborough; Paul Furnborough; Paul Furnborough; Stephen Smith; Paul Furnborough; Corinne Williams; Kiani Perera; Stephen...	13 Adult Male; 7 Male; 8 Adult Male; 9 Adult Male; 3 Adult Male; 26 Adult Male; 28 Adult Male; 1 Adult Female; 9 Male; 11 Adult Male; 1 Adult Male	Torch Count	Aberderfyn: SLH12e		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3080146290	23/04/2003	Recorder Name Withheld	11 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3080746339	23/04/2003	Recorder Name Withheld	1 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3081646395	23/04/2003	Recorder Name Withheld	2 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3083246304	23/04/2003	Recorder Name Withheld	2 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3090546398	23/04/2003	Recorder Name Withheld	5 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3094146392	23/04/2003	Recorder Name Withheld	2 adult M		Hafod Mitigation Pools	Torch model: Clulite Cb2. Pond suitability for torching: moderate due to, vegetation and water clarity Surveyors: M Ellis, A Brown, D Tomlinson. Source: Old ARC database	D1737/003/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30804550	22/05/1992	Anon - Herpetofauna Consultants International				Sex stage: Egg	D1122/002/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3079246468 (Selected from Interactive Map)	26/04/2016	Alasdair Thomson; Lindsay Bryan	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH13	Large eel (80cm+) seen!	D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3081946476 (Selected from Interactive Map)	2 records, between 14/04/2009 and 30/04/2009	Kylie Jones - Mattock; Remani Jones; Rachel Jarvis; Kylie Jones - Mattock; Rachel Jarvis; Kate Surry; Remani Jones	4 Adult Male; 2 Adult Male; 1 Adult Female	Torch Count	Bonc y Hafod Country Park: SLH14		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3117546483 (Selected from Interactive Map)	14/04/2009	Kylie Jones - Mattock; Remani Jones; Rachel Jarvis	2 Adult Female	Torch Count	Bonc y Hafod Country Park: SLH17		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3077446631 (Selected from Interactive Map)	2 records, between 14/04/2009 and 30/04/2009	Kylie Jones - Mattock; Remani Jones; Rachel Jarvis; Kylie Jones - Mattock; Rachel Jarvis; Kate Surry; Remani Jones	2 Adult Male; 2 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH19		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ30694607 (Selected from Interactive Map)	09/10/2019	Kate Wilson	6 Adult		Aberderfyn	Recued from a shaft in the culvert during flood alleviation works	D1531/001/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	PC
<i>Lissotriton vulgaris</i> (Smooth Newt / Madfall Ddwr Gyffredin)	SJ3105846425 (Selected from Interactive Map)	10/05/2007	Matthew McNlytre; Paul Christie; Kylie Jones - Mattock	3 Adult Male	Torch Count	Bonc y Hafod Country Park: SLH15		D1320/014/01	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-T, WCA5	NA
<i>Loxia curvirostra</i> (Crossbill / Gylfingroes)	SJ3047	02/12/2005	JA Jackson	6	Reported to recorder	Wrexham, Pentrebychan	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WCA1.1	NA
<i>Meles meles</i> (Badger / Mochyn Daear)	SJ3146	2001	Clwyd Badger Group		Badger Sett	-Withheld-	-Withheld-	D0059/001/03	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-W, PBA	NA
<i>Meles meles</i> (Badger / Mochyn Daear)	SJ3246	06/06/2005	Clwyd Badger Group		Badger Sett	-Withheld-	-Withheld-	D0059/001/03	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-W, PBA	NA
<i>Milvus milvus</i> (Red Kite / Barcud)	SJ34 (Approximate)	07/03/1997	Mrs Shirley Williams			-Withheld-	-Withheld-	D1297/042/01	BDir1, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1, WCA9	PC
<i>Milvus milvus</i> (Red Kite / Barcud)	SJ34 (Approximate)	26/04/2020	Mrs Heather Cartwright			-Withheld-	-Withheld-	D1297/039/01	BDir1, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1, WCA9	PC
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ3247	06/08/2017	Heather Cartwright	3		Wrexham, Erddig, Hafod Wood	BirdTrack. Activity: NY	D1297/025/01	BAP, Bern2, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Myotis</i> (Myotis Bat species)	SJ3046	06/10/2008	Karl Martin	1 Adult	Bat detector	-Withheld-	-Withheld-	D1398/001/01	Bern2, Bonn2, CHS2, HDir4, WCA5	PC
<i>Myotis daubentonii</i> (Daubenton's Bat / Ystlum y Dwr)	SJ3046	2 records, between 06/10/2008 and 24/10/2008	Karl Martin	2 Adult; 1 Adult	Bat detector	-Withheld-	-Withheld-	D1398/001/01	Bern2, Bonn2, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-F, LBAP-G, WCA5	PC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ308463	4 records, between 18/07/2008 and 19/05/2009	Mick Brummage; Sarah Jones	5 sub-adults; 3 sub-adults; Adult; 4 adults		Hafod R1, Johnstown	Under refuges in grassland; Under refuge in grassland; Near pond 6 during newt survey; under refuges in grassland	D0035/002/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	KC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ307463	2002	Bill Burke	Several		Hafod R1, Johnstown	Several in area of old pasture and ponds	D0035/002/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ308464	11/09/2008	Remani Jones	5 sub-adults		Hafod R1, Johnstown	Under refuges in grassland	D0035/002/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	KC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ3046	30/04/2009	Mick Brummage	2 adult males, 3 adult females		Hafod R1, Johnstown	Under refuges in grassland	D0035/002/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	KC
<i>Natrix helvetica</i> (Grass Snake / Neidr y Gwair)	SJ3094546395 (Selected from Interactive Map)	08/05/2012	Simon Cope; Nicola Wheeler	1	Torch Count	Hafod R1: Pond 02		D1320/014/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, S7, WCA5	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ3246 (Approximate)	25/03/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RL-EN, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3247	4 records, between 24/04/2016 and 04/05/2020	Heather Cartwright; Mr James Hughes			Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3246 (Approximate)	10 records, between 24/01/2009 and 25/07/2020	Mr James Hughes; Anon	10+; 20+; 12+; 8+		Sontley, pools	Occurrence ID: NBN-GA000656-BGBW2009-16444298-106609009	D1297/039/01 , D1852/002/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ307459 (Approximate)	28/01/2022	Kate Wilson	1 Full-Grown		Aberderfyn		D1531/001/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	UA
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ3046	2 records, between 26/01/2008 and 25/01/2009	Anon			Wrexham Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22135429-139324050; Occurrence ID: NBN-GA000656-BGBW2009-16442656-106609263	D1852/001/01 , D1852/002/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer montanus</i> (Tree Sparrow / Golfan y Mynydd)	SJ3047	16/05/2007	John Lawton Roberts	1	Reported to recorder	Wrexham, Pentrebychan	Survey: Observer data	D0062/008/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	NA
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle)	SJ3046	10/05/1995	Anon			-Withheld-	-Withheld-	D1486/001/01	Bonn2, CHS2, HDir4, LBAP-A, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, WCA5	NA
<i>Pipistrellus pipistrellus</i> (Common Pipistrelle)	SJ3046	24/10/2008	Karl Martin	5 Adult	Bat detector	-Withheld-	-Withheld-	D1398/001/01	Bonn2, CHS2, HDir4, LBAP-A, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Pipistrellus pygmaeus</i> (Soprano Pipistrelle)	SJ3046	06/10/2008	Karl Martin	3 Adult	Bat detector	-Withheld-	-Withheld-	D1398/001/01	BAP, Bern2, Bonn2, CHS2, HDir4, LBAP-A, LBAP-D, LBAP-F, LBAP-G, LBAP-S, S7, WCA5	PC
<i>Plecotus auritus</i> (Brown Long-eared Bat / Ystlum Hirglust)	SJ3147	07/07/2010	Sam Dyer			-Withheld-	-Withheld-	D1543/001/01	BAP, Bern2, Bonn2, CHS2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, WCA5	NA
<i>Poecile montanus</i> (Willow Tit / Titw'r Helyg)	SJ3247	11/04/2006	John Lawton Roberts	3	Reported to recorder	Wrexham, Erddig, Hafod Wood	Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	NA
<i>Poecile palustris</i> (Marsh Tit / Titw'r Wern)	SJ3247	6 records, between 14/02/2006 and 15/07/2018	Steven Davies; Heather Cartwright; John Lawton Roberts; Neil Hughes	2; 3; 1	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Activity: FL; Survey: Observer data	D1297/025/01 , D0062/008/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC, NA
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3247	13 records, between 10/03/2016 and 04/05/2020	Emma Broad; Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes	1; 2		Wrexham, Erddig, Hafod Wood	BirdTrack. Activity: H; BirdTrack	D1297/025/01 , D1297/039/01 , D1297/026/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3046	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16442803-106179338	D1852/002/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3246	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16444298-106179632	D1852/002/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ3146	10/10/2019	Dr Anne Brenchley			SJ3145 Bonc-y-Hafod CP		D1297/026/01	BAP, Bern2, LBAP-C, S7, UKBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Prunella modularis</i> (Dunnoch / Llwyd y Gwrych)	SJ3145	2009	Anon					D1775/001/02	BAP, Bern2, LBAP-C, S7, UKBA	NA
<i>Prunella modularis</i> (Dunnoch / Llwyd y Gwrych)	SJ3147	27/06/2009	Jason Newton	1	Reported to recorder	Wrexham, Rhosyllen, S	Activity: S. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-C, S7, UKBA	NA
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3247	4 records, between 08/02/2017 and 24/04/2020	Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes	4; 1; 2		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01 , D1297/026/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ3146 (Approximate)	11/10/2020	Mr Steven Davies	2		Bonc-yr-Hafod		D1297/039/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3081546215 (Selected from Interactive Map)	5 records, between 30/04/2013 and 07/05/2019	Simon Cope; Nicola Wheeler; Matthew Ellis	1 Age & Sex Unknown; Larva/Tadpole; 1 Larva/Tadpole	Torch Count	Hafod R1: Pond 10		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3077546365 (Selected from Interactive Map)	2 records, between 05/04/2014 and 13/05/2015	Simon Cope; Nicola Wheeler; Matthew Ellis; Nicola Wheeler; Simon Cope	1 Age & Sex Unknown	Torch Count	Hafod R1: Pond 05b		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3080546365 (Selected from Interactive Map)	3 records, between 20/04/2004 and 10/04/2018	Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Matthew Ellis; Simon Cope; Nicola Wheeler	Frog Spawn; 3 Adult (Sex Unknown); 1 Age & Sex Unknown	Torch Count	Hafod R1: Pond 06		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3081546275 (Selected from Interactive Map)	3 records, between 20/04/2004 and 10/04/2018	Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Matthew Ellis; Kylie Jones - Mattock; Kate Surry; Remani Jones; Rachel Jarvis	Frog Spawn; 1 Adult (Sex Unknown); Larva/Tadpole; 1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 09		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3093546415 (Selected from Interactive Map)	3 records, between 13/04/2006 and 11/05/2011	Matthew Ellis; Kim Norman; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Karl Martin; Matthew McInyre; Kylie Jones - Mattock; Paul Christie; Matthew Ellis	2 Adult Male; 1 Larva/Tadpole; 1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 03 (former site)		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3077446631 (Selected from Interactive Map)	3 records, between 30/04/2009 and 02/05/2017	Alasdair Thomson; Kylie Jones - Mattock; Rachel Jarvis; Kate Surry; Remani Jones; Alasdair Thomson; Rachael Davis	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH19		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3084746980 (Selected from Interactive Map)	3 records, between 27/04/2010 and 20/05/2014	Alasdair Thomson; Alasdair Thomson; Lindsay Bryan; Rachael Davis; Alasdair Thomson; Kia Thomas; Steve R; Anon	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH20	Stickleback	D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3079446798 (Selected from Interactive Map)	7 records, between 02/04/2011 and 08/05/2018	Alasdair Thomson; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Lindsay Bryan; Rachael Davis; Alasdair Thomson; Lindsay Bryan; Julie Rose; Sue Budd; Alasdair Thomson; Rachael Davis; Alasdair Thom...	5 Adult (Sex Unknown); 1 Adult (Sex Unknown); 2 Adult (Sex Unknown); 4 Adult (Sex Unknown); 3 Juvenile (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: Rail ditch	Stickleback	D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3076046127 (Selected from Interactive Map)	4 records, between 19/05/2015 and 21/04/2021	Paul Furnborough; Tom Hough; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Paul Furnborough; Paul Furnborough; Emma Ellis	1 Adult (Sex Unknown); 1 Age & Sex Unknown	Torch Count	Aberderfyn: SLH12d		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3078546355 (Selected from Interactive Map)	2 records, between 14/04/2011 and 10/04/2018	Matthew Ellis; Nicola Wheeler; Simon Cope	Frog Spawn; Larva/Tadpole; 3 Age & Sex Unknown	Torch Count	Hafod R1: Pond 06a		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3078546385 (Selected from Interactive Map)	3 records, between 05/04/2014 and 10/04/2018	Matthew Ellis; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler	4 Adult (Sex Unknown); 1 Age & Sex Unknown	Torch Count	Hafod R1: Pond 05a		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3085846385 (Selected from Interactive Map)	3 records, between 10/05/2007 and 10/04/2018	Matthew Ellis; Kylie Jones - Mattock; Paul Christie; Matthew McInyre; Karl Martin	2 Adult (Sex Unknown); 1 Adult Male; Larva/Tadpole	Torch Count	Hafod R1: Pond 04		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3089546405 (Selected from Interactive Map)	2 records, between 04/05/2006 and 10/04/2018	Matthew Ellis; Matthew Ellis; David Groom; Gail Atkinson	2 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 11		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3079246468 (Selected from Interactive Map)	3 records, between 26/04/2016 and 09/04/2019	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Ally Whitley	Larva/Tadpole; 3+ Larva/Tadpole	Torch Count	Bonc y Hafod Country Park: SLH13		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3072546181 (Selected from Interactive Map)	3 records, between 19/05/2015 and 06/06/2019	Paul Furnborough; Ian Moran; Paul Furnborough; Kiani Perera; Keely Bigland; Kate Wilson; Paul Furnborough	2 Age & Sex Unknown; 1 Adult (Sex Unknown); 1 Age & Sex Unknown	Torch Count	Aberderfryn: SLH12		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ307459	07/03/2022	Kate Wilson	10 Frog Spawn		Aberderfryn		D1531/001/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	PC
<i>Rana temporaria</i> (Common Frog / Broga)	SJ307460 (Selected from Interactive Map)	04/05/2022	Kate Wilson; Naomi Chapple-Parry	1 Adult		Aberderfryn	Recorded in a puddle during GCN survey	D1531/001/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	UA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ308463 (Supplied by Original Recorder (Checked))	20/04/2004	Matthew Ellis, Alan Brown, D. Tomlinson, Ian Hughes, Rachel Watson	Egg		SSSI: Stryt Las a'r Hafod; Hafod	Torch survey of 17 ponds	D1314/003/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3081946476 (Selected from Interactive Map)	3 records, between 20/05/2014 and 02/06/2015	Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Lindsay Bryan; Rachael Davis; Alasdair Thomson; Kim Norman; Rachael Davis	3 Adult (Sex Unknown); 1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH14	Fish	D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3116646487 (Selected from Interactive Map)	02/06/2015	Alasdair Thomson; Rachael Davis; Kim Norman	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH16		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3117546483 (Selected from Interactive Map)	9 records, between 12/05/2015 and 19/05/2021	Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Rachael Davis; Alasdair Thomson; Lindsay Bryan; Jamie Thomson; Alasdair Thomson; Ally Whitley; Alasdair...	1 Adult (Sex Unknown); 2 Adult (Sex Unknown); 1 Juvenile (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH17		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3085547006 (Selected from Interactive Map)	2 records, between 27/04/2010 and 21/05/2013	Alasdair Thomson; Kia Thomas; Steve R; Anon; Alasdair Thomson; Lindsay Bryan; Julie Rose; Sue Budd	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH21	Stickleback	D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3078646218 (Selected from Interactive Map)	3 records, between 15/04/2014 and 06/06/2019	Paul Furnborough; Kiani Perera; Keely Bigland; Kim Norman; Karl Martin; Kim Norman; Paul Furnborough	1 Adult (Sex Unknown); 1 Age & Sex Unknown	Torch Count	Aberderfyn: SLH12a		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3078846181 (Selected from Interactive Map)	4 records, between 13/04/2010 and 06/06/2019	Paul Furnborough; Karl Martin; Kim Norman; Kylie Jones - Mattock; Karl Martin; Remani Jones	4 Adult (Sex Unknown); 3 Adult (Sex Unknown); Larva/Tadpole; 1 Age & Sex Unknown	Torch Count	Aberderfyn: SLH12b		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3076046160 (Selected from Interactive Map)	2 records, between 08/05/2018 and 06/06/2019	Ian Moran; Paul Furnborough	Present Larva/Tadpole; 1 Age & Sex Unknown	Torch Count	Aberderfyn: SLH12c		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3072546099 (Selected from Interactive Map)	3 records, between 08/05/2018 and 05/05/2021	Paul Furnborough; Emma Ellis; Paul Furnborough; Paul Furnborough; Emma Ellis	1 Adult (Sex Unknown); 3 Adult (Sex Unknown); 3 Age & Sex Unknown	Torch Count	Aberderfyn: SLH12e		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3096546415 (Selected from Interactive Map)	30/04/2009	Kylie Jones - Mattock; Kate Surry; Remani Jones; Rachel Jarvis	1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 01		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3086047025 (Selected from Interactive Map)	21/04/2021	Alasdair Thomson; Sue Mills; David Mills	1 Adult (Sex Unknown)	Torch Count	Bonc y Hafod Country Park: SLH22		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3083546305 (Selected from Interactive Map)	30/04/2009	Kylie Jones - Mattock; Kate Surry; Remani Jones; Rachel Jarvis	1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 08		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3094546395 (Selected from Interactive Map)	23/05/2007	Karl Martin	1 Adult (Sex Unknown)	Torch Count	Hafod R1: Pond 02		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ3076545885 (Selected from Interactive Map)	13/04/2017	Simon Cope; Nicola Wheeler	1 Adult (Sex Unknown)	Torch Count	Hafod Lagoons: Lagoon 3		D1320/014/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	NA
<i>Satyrium w-album</i> (White-letter Hairstreak / Brithribin W Wen)	SJ3247	1976	Anon	6		Hafod Wood, Erddig		D0217/001/04	BAP, LBAP-F, RL-EN, S7, WCA5	NA
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3247	4 records, between 24/04/2016 and 16/04/2020	Heather Cartwright; Mr James Hughes	2		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3046	2 records, between 26/01/2008 and 25/01/2009	Anon			Wrexham, Denbighshire	Occurrence ID: NBN-GA000567- BGBW2008- 22135760- 139324051; Occurrence ID: NBN-GA000656- BGBW2009- 16443121- 106878488	D1852/001/01 , D1852/002/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3246	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16444298- 106878477	D1852/002/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ3146	18/05/2011	Neil Hughes	1	Reported to recorder	Rhosllanerchrugog, Brick works	Activity: ON. Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	32 records, between 23/04/2003 and 06/05/2021	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams...	3 Male; 1 Age & Sex Unknown; 5 Male; 2 Female; 4 Age & Sex Unknown; 11 Male; 5 Female; 9 Age & Sex Unknown; 1 Male; 5 Age & Sex Unknown; 1 Adult Male; 2 Adult (Sex Unknown); 1 Adult Male; 3 Adult F...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Selected from Interactive Map)	35 records, between 13/04/2010 and 07/05/2021	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew	1 Male; 2 Female; 77 Male; 9 Female; 6 Age & Sex Unknown; 62 Male; 27 Female; 7 Age & Sex Unknown; 116 Male; 40 Female; 4 Adult (Sex Unknown); 77 Male; 18 Female; 4 Adult (Sex Unknown); 9 Male; 1 F...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Selected from Interactive Map)	22 records, between 14/04/2009 and 07/05/2021	Simon Cope; Nicola Wheeler; Nicola Wheeler; Simon Cope; Simon Cope; Matthew Ellis; Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Kylie Jones - Mattock; Remani Jones; Rachel Price; Simon Cope...	1 Male; 1 Female; 1 Age & Sex Unknown; 1 Male; 1 Female; 1 Male; 1 Female; 1 Adult (Sex Unknown); 2 Male; 3 Female; 3 Adult (Sex Unknown); 1 Adult (Sex Unknown); 2 Male; 1 Female; 1 Female; 2 Adult...	Torch Count; Terrestrial disturbance	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	36 records, between 02/05/2001 and 21/04/2021	Simon Cope; Nicola Wheeler; Nicola Wheeler; Simon Cope; Matthew Ellis; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams; Pip Perry; Matthew Ellis; Kim Norman; Simon	2 Male; 1 Male; 2 Female; 1 Age & Sex Unknown; 25 Male; 13 Female; 1 Age & Sex Unknown; 20 Adult Male; 22 Adult Female; 8 Adult (Sex Unknown); 5 Adult Male; 2 Adult Female; 1 Adult Male; 1 Male; 1 ...	Torch Count/Pitfall trap; Netted	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	49 records, between 02/05/2001 and 21/04/2021	Simon Cope; Nicola Wheeler; Matthew Ellis; Nicola Wheeler; Simon Cope; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	3 Male; 2 Female; 3 Age & Sex Unknown; 6 Male; 4 Female; 3 Age & Sex Unknown; 2 Female; 5 Male; 5 Female; 5 Age & Sex Unknown; 1 Adult Female; 1 Adult Male; 4 Adult Female; 1 Adult (Sex Unknown); 1...	Torch Count/Pitfall trap; Netted	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	47 records, between 02/05/2001 and 06/05/2021	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams...	15 Male; 12 Female; 5 Age & Sex Unknown; 17 Male; 5 Female; 1 Age & Sex Unknown; 2 Male; 5 Female; 2 Age & Sex Unknown; 23 Male; 4 Female; 7 Age & Sex Unknown; 1 Adult Male; 2 Adult Female; 1 Adult...	Torch Count/Pitfall trap; Netted	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	32 records, between 27/04/2010 and 06/05/2021	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope; Matthew Ellis; Nic...	4 Male; 2 Female; 3 Male; 2 Female; 1 Age & Sex Unknown; 5 Male; 3 Female; 2 Age & Sex Unknown; 7 Male; 2 Female; 2 Adult (Sex Unknown); 1 Male; 4 Adult Male; 12 Adult Female; 1 Adult (Sex Unknown)...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	9 records, between 09/04/2013 and 09/04/2019	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope; Simon Cope	1 Male; 2 Male; 3 Female; 14 Male; 1 Female; 1 Adult (Sex Unknown); 1 Male; 1 Age & Sex Unknown; 4 Male; 1 Female; 1 Age & Sex Unknown; 1 Male; 1 Female; 2 Male; 1 Female	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	52 records, between 02/05/2001 and 06/05/2021	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	36 Male; 8 Female; 18 Age & Sex Unknown; 4 Male; 20 Female; 6 Age & Sex Unknown; 4 Male; 9 Female; 5 Age & Sex Unknown; 4 Male; 2 Female; 2 Age & Sex Unknown; 3 Adult Male; 1 Adult (Sex Unknown); 1...	Torch Count/Pitfall trap	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	46 records, between 02/05/2001 and 06/05/2021	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Alan Brown; Dave Tomlinson; Matthew Ellis; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams...	3 Male; 1 Female; 1 Age & Sex Unknown; 1 Age & Sex Unknown; 1 Adult Female; 1 Adult (Sex Unknown); 26 Adult Male; 11 Adult Female; 4 Adult Male; 4 Adult Female; 2 Adult Female; 4 Adult Male; 3 Adul...	Torch Count/Pitfall trap	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	52 records, between 02/05/2001 and 06/05/2021	Simon Cope; Nicola Wheeler; Simon Cope; Nicola Wheeler; Matthew Ellis; Jan Wilkinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams; Pip Perry; Kylie Jones; Ki...	2 Male; 2 Female; 4 Age & Sex Unknown; 2 Male; 9 Female; 1 Age & Sex Unknown; 20 Female; 3 Age & Sex Unknown; 2 Adult Male; 7 Adult Female; 58 Adult Male; 24 Adult Female; 18 Adult Male; 15 Adult F...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	34 records, between 02/05/2001 and 21/04/2021	Simon Cope; Nicola Wheeler; Matthew Ellis; Simon Cope; Nicola Wheeler; Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Rhys Williams; Pip Perry; Kylie Jones; Kim Norman; Simon Cope; Matthew	2 Male; 3 Age & Sex Unknown; 12 Male; 9 Female; 8 Age & Sex Unknown; 1 Adult Female; 12 Adult Male; 10 Adult Female; 1 Adult (Sex Unknown); 2 Adult Female; 4 Adult Male; 2 Adult Female; 7 Male; 2 F...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	6 records, between 25/05/2011 and 10/04/2018	Simon Cope; Nicola Wheeler; Matthew Ellis; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew Ellis; Kim Norman; Paul Day	1 Male; 1 Female; 3 Female; 1 Adult Female; 1 Male	Torch Count; Terrestrial disturbance	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	25 records, between 14/04/2009 and 24/06/2020	Simon Cope; Nicola Wheeler; Simon Cope; Matthew Ellis; Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day; Nicola Wheeler; Simon Cope; Simon Cope; Nicola Wheeler; Matthew Ellis; Kim Norman; Paul D...	8 Male; 2 Female; 1 Age & Sex Unknown; 1 Female; 2 Adult Male; 8 Adult Female; 3 Adult (Sex Unknown); 2 Male; 1 Female; 1 Age & Sex Unknown; 2 Male; 2 Female; 3 Male; 1 Male; 1 Female; 3 Adult Male...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	14 records, between 02/05/2001 and 09/04/2019	Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Matthew Ellis; Kim Norman; Kim Norman; Kylie Jones; Karl Martin; Kyli...	1 Adult Female; 3 Adult Male; 3 Adult Female; 2 Adult Female; 1 Adult Male; 3 Adult Female; 1 Adult Male; 1 Adult (Sex Unknown); 1 Adult Male; Adult Male; 58 Adult Male; 13 Adult Female; 2 Adult (Sex	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	13 records, between 02/05/2001 and 10/04/2018	Jan Wilkinson; Matthew Ellis; Alan Brown; Dave Tomlinson; Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Rhys Williams; Pip Perry; Matthew Ellis; Matthew Ellis; David Groom; ...	3 Adult Male; 3 Adult Female; 2 Adult Male; 2 Adult Female; 15 Adult Male; 4 Adult Female; 2 Adult Male; 8 Adult Female; 1 Adult Male; 2 Adult Female; 1 Juvenile (Sex Unknown); 2 Adult (Sex Unknown);	Torch Count/Pitfall trap	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	22 records, between 02/05/2001 and 25/05/2011	Matthew Ellis; Dave Tomlinson; Alan Brown; Ian Hughes; Rhys Williams; Pip Perry; Rhys Williams; Matthew Ellis; Kim Norman; Kylie Jones; Kim Norman; Karl Martin; Kylie Jones; Simon Cope; Matthew Ell...	11 Adult Male; 16 Adult Female; 3 Adult (Sex Unknown); 25 Adult Male; 46 Adult Female; 1 Adult Male; 2 Adult (Sex Unknown); 1 Adult Male; 27 Male; 4 Adult Female; 4 Adult (Sex Unknown); 4 Male; 4 F...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	11 records, between 13/04/2006 and 12/04/2016	Matthew Ellis; Kim Norman; David Groom; Kylie Jones - Mattock; Kate Wilson; Keely Bigland; Kiani Perera; Paul Fumborough; Karl Martin; Kim Norman; Paul Fumborough; Corinne Williams; Kiani Perera;...	16 Adult Male; 9 Adult Female; 6 Adult Male; 1 Adult Female; 3 Adult Male; 1 Adult Male; 7 Adult Female; 4 Adult (Sex Unknown); 1 Adult Male; 2 Adult Female; 1 Adult Male; 45 Adult Male; 1 Female; ...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Selected from Interactive Map)	13 records, between 08/06/1993 and 23/05/2006	Matthew Ellis; Kim Norman; David Groom; David Groom; Matthew Ellis; Paul Day; Dean Skrabanja; Lesley Woodford; Dean Skrabanja; Lesley Woodford; Jan Wilkinson; Matthew Ellis; Jan Wilkinson; Vanessa ...	43 Adult Male; 32 Adult Female; 9 Adult (Sex Unknown); 72 Adult Male; 56 Adult Female; 2 Adult (Sex Unknown); 20 Adult Male; 16 Adult Female; 25 Adult (Sex Unknown); 10 Adult Male; 13 Adult Female; 1	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3047 (Selected from Interactive Map)	6 records, between 13/04/2010 and 22/04/2015	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Alasdair Thomson; Steve R; Alasdair Thomson; Kia Thomas; Steve R; Anon; Alasdair Thomson; Rachael Davis	2 Adult Male; 1 Female; 2 Adult Male; 1 Adult Female; 1 Adult Male; 4 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	25 records, between 13/04/2010 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Lindsay Bryan; Kim Norman; Al...	5 Adult Male; 2 Adult Female; 7 Adult Male; 3 Adult Female; 1 Adult Male; 5 Adult Male; 1 Male; 1 Female; 3 Adult Male; 3 Adult Female; 8 Adult Male; 2 Adult Female; 6 Adult Male; 1 Adult Female; 2...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	19 records, between 08/05/2012 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Kim Norman; Rachael Davis; Alasdair Thomson; Lindsay Bryan; Kim Norman; Alasdair Thomson; Li...	3 Adult Male; 1 Male; 1 Male; 1 Female; 1 Female; 6 Adult Male; 4 Adult Male; 3 Adult Female; 1 Adult Male; 1 Adult Female; 6 Adult Male; 3 Adult Female; 1 Adult Male; 4 Adult Male; 2 Adult Male; 3...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3146 (Selected from Interactive Map)	26 records, between 04/08/2008 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Lindsay Bryan; Kim Norman; Alasdair Thomson; Li...	2 Adult Male; 5 Adult Male; 2 Adult Female; 1 Male; 3 Male; 3 Female; 2 Female; 1 Adult Female; 3 Adult Male; 4 Adult Female; 7 Adult Male; 1 Adult Female; Larva/Tadpole; 1 Adult Male; 3 Adult Male...	Torch Count/Netted	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3146 (Selected from Interactive Map)	15 records, between 06/05/2008 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Karl Martin; Kylie Jones - Mattock; Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Rachael Davis; Kim Norman; Alasdair Thomson; Lindsay Bry...	5 Adult Male; 1 Adult Female; 2 Adult Male; 1 Male; 2 Female; 1 Juvenile Male; 3 Male; 5 Adult Male; 1 Adult Female; 1 Adult Male; 3 Adult Male; 2 Adult Female; 3 Adult Male; 4 Adult Male; 3 Adult ...	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	08/05/2012	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman	1 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	14 records, between 14/04/2009 and 19/05/2021	Alasdair Thomson; Lindsay Bryan; Julie Rose; Kim Norman; Alasdair Thomson; Alasdair Thomson; Lindsay Bryan; Kim Norman; Alasdair Thomson; Kia Thomas; Steve R; Anon; Alasdair Thomson; Lindsay Bryan; A...	2 Adult Male; 1 Adult Female; 2 Adult Female; 1 Adult Male; 2 Adult Male; 4 Adult Male; 2 Female; 1 Adult Female; 1 Adult Male; 3 Adult Female	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3047 (Selected from Interactive Map)	2 records, between 02/04/2011 and 10/04/2018	Alasdair Thomson; Alasdair Thomson; Lindsay Bryan	1 Adult Female; 1 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Supplied by Original Recorder)	7 records, between 12/04/2017 and 06/05/2021	Simon Cope	1 Adult (Sex Unknown); 1 Adult Male; 2 Adult Male; 2 Adult Female; 1 Male; 1 Adult Female	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	4 records, between 15/04/2014 and 10/04/2018	Ian Moran; Paul Fumborough; Paul Fumborough; Kiani Perera; Keely Bigland; Kate Wilson; Karl Martin; Kim Norman; Paul Fumborough; Tom Hough; Charlie Philp	1 Male; 3 Adult Male; 4 Adult Male; 1 Adult Female; 1 Adult (Sex Unknown); 1 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	9 records, between 23/05/2013 and 05/05/2021	Ian Moran; Paul Fumborough; Paul Fumborough; Kiani Perera; Keely Bigland; Kate Wilson; Ian Moran; Paul Fumborough; Stephen Smith; Paul Fumborough; Corinne Williams; Kiani Perera; Stephen Smith;...	3 Male; 5 Female; 1 Adult Male; 2 Adult Female; 1 Adult Female; 1 Adult (Sex Unknown)	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	15 records, between 02/05/2002 and 14/09/2010	Simon Cope; Matthew Ellis; Alan Brown, D. Tomlinson, Ian Hughes, Rachel Watson; Anon; Philippa Perry; Matthew Ellis; Alan Brown, D. Tomlinson; Recorder Name Withheld; Tom Knight	1 Larvae; 20 ; 159 Male; 104 Female; 25 ; 20 Male; 16 Female; Larvae; 1 ; 1 Male; 4 Female; 9 ; 43 Male; 32 Female; 181 ; 61 Male; 120 Female; 4 ; 21 Male; 18 Female; 1 adult M; P Adult (Exact); P ...		-Withheld-	-Withheld-	D1117/001/01 , D1314/003/01 , D0026/279/01 , D1314/004/01 , D1314/002/01 , D1737/003/01 , D1923/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC, NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	4 records, between 17/04/2007 and 14/09/2010	Simon Cope; Anon - CCW; Anon	2 Juvenile; 2 ; 19 Male; 7 Female; 14 Male; 3 Female; 1 ; 6 Male; 3 Female		-Withheld-	-Withheld-	D1117/001/01 , D1314/006/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Estimated Centroid of Site))	7 records, between 05/03/1999 and 14/08/2006	Anon; Jacinta Challinor, Matthew Ellis; Glenn Richards	10 Male; 13 Female; 2 ; 72 Male; 56 Female; Larvae; 1 ; 2 Male; 3 Female; 3; 10 ; 9 Male; 12 Female; 56 Adult (Exact)		-Withheld-	-Withheld-	D0026/279/01 , D0026/036/01 , D1923/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC, NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	2 records, between 23/04/2003 and 21/04/2005	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry, Gael Atkinson	2 Male; 2 Female; 2 Male; 8 Female		-Withheld-	-Withheld-	D0026/279/01 , D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	2 records, between 23/04/2003 and 21/04/2005	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry, Gael Atkinson	+; 4 Male; 4 Female		-Withheld-	-Withheld-	D0026/279/01 , D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	2 records, between 23/04/2003 and 21/04/2005	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry, Gael Atkinson	1 ; 12 Male; 10 Female; 2 Female		-Withheld-	-Withheld-	D0026/279/01 , D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	2 records, between 23/04/2003 and 21/04/2005	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry, Gael Atkinson	2 ; 1 Male; 1 Female		-Withheld-	-Withheld-	D0026/279/01 , D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	2 records, between 23/04/2003 and 21/04/2005	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry, Gael Atkinson	1 ; 1 Male; 4 Female; 3 Male; 2 Female		-Withheld-	-Withheld-	D0026/279/01 , D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	2 records, between 23/04/2003 and 21/04/2005	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry, Gael Atkinson	1 Male; 2 Female; 1 Female		-Withheld-	-Withheld-	D0026/279/01 , D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	2 records, between 23/04/2003 and 21/04/2005	Matthew Ellis, Alan Brown, D. Tomlinson; Philippa Perry, Gael Atkinson	1 Male; 4 Male; 1 Female		-Withheld-	-Withheld-	D0026/279/01 , D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated Centroid of Site))	23/04/2003	Matthew Ellis, Alan Brown, D. Tomlinson	3 Male		-Withheld-	-Withheld-	D0026/279/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated (From Recorder's Map))	21/04/2005	Philippa Perry, Gael Atkinson	5 Male; 2 Female		-Withheld-	-Withheld-	D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated (From Recorder's Map))	21/04/2005	Philippa Perry, Gael Atkinson	25 Male; 46 Female		-Withheld-	-Withheld-	D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Estimated (From Recorder's Map))	21/04/2005	Philippa Perry, Gael Atkinson	18 Male; 35 Female		-Withheld-	-Withheld-	D1320/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Supplied by Original Recorder)	11/05/2011	Simon Cope; Nicola Wheeler; Matthew Ellis; Paul Day	1 Female	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	4 records, between 15/05/2012 and 28/04/2015	Kim Norman; Paul Fumborough; Kiani Perera; Keely Bigland; Karl Martin; Kim Norman; Kim Norman; Leah Williams; Kate Wilson; Kate Surry; Rachel Jarvis	1 Adult Male; 4 Adult Male; 2 Adult Female; 1 Adult (Sex Unknown); 1 Adult (Sex Unknown); Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Supplied by Original Recorder)	5 records, between 08/05/2018 and 06/05/2021	Simon Cope	1 Adult (Sex Unknown); 2 Male; 1 Male; 1 Female; 3 Adult (Sex Unknown); 1 Female; 1 Adult (Sex Unknown)	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	6 records, between 18/04/2013 and 08/05/2018	Paul Furnborough; Paul Furnborough; Stephen Smith; Paul Furnborough; Corinne Williams; Kiani Perera; Stephen Smith; Sam Poole; Kim Norman; Leah Williams; Kate Wilson; Remani Jones; Kim Norman; Remani	1 Juvenile (Sex Unknown); 3 Adult Male; 2 Adult Female; 1 Adult (Sex Unknown); 7 Adult Male; 2 Adult Female; 1 Adult Male; 3 Adult Female; 2 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	23/04/2003	Recorder Name Withheld	3 adult M		-Withheld-	-Withheld-	D1737/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	2 records, both on 23/04/2003	Recorder Name Withheld	2 adult M; 2 adult F		-Withheld-	-Withheld-	D1737/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	2 records, both on 23/04/2003	Recorder Name Withheld	1 adult M; 2 adult F		-Withheld-	-Withheld-	D1737/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	4 records, between 23/04/2003 and 23/03/2007	Recorder Name Withheld; YA/SW	1 adult; 1 adult M; 4 adult F		-Withheld-	-Withheld-	D1737/003/01 , D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	3 records, all on 23/04/2003	Recorder Name Withheld	1 adult; 12 adult M; 10 adult F		-Withheld-	-Withheld-	D1737/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	2 records, both on 23/04/2003	Recorder Name Withheld	2 adult; 1 adult M		-Withheld-	-Withheld-	D1737/003/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Supplied by Original Recorder)	3 records, between 01/04/2020 and 06/05/2021	Simon Cope	3 Male; 1 Female; 1 Adult (Sex Unknown)	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Supplied by Original Recorder)	01/04/2020	Simon Cope	3 Male; 5 Female; 4 Adult (Sex Unknown)	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (GPS Reading)	05/08/2003	Jan Wilkinson	Tadpole/Larvae/Eft, 0 Adult, 0 Juvenile, 0 Adult Male, 0 Adult Female, 0 Egg		-Withheld-	-Withheld-	D1045/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (GPS Reading)	05/08/2003	Jan Wilkinson	0 Adult, 0 Adult Female, 0 Adult Male, 0 Juvenile, P Tadpole/Larvae/Eft, 0 Egg		-Withheld-	-Withheld-	D1045/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (GPS Reading)	05/08/2003	Jan Wilkinson	Tadpole/Larvae/Eft, 0 Adult, 0 Juvenile, 0 Male, 0 Female, 0 Egg		-Withheld-	-Withheld-	D1045/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (GPS Reading)	05/08/2003	Jan Wilkinson	0 Egg, 0 Adult, 0 Juvenile, 0 Adult Male, 0 Adult Female, P Tadpole/Larvae/Eft		-Withheld-	-Withheld-	D1045/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (GPS Reading)	05/08/2003	Jan Wilkinson	Tadpole/Larvae/Eft, 0 Adult, 0 Juvenile, 0 Male, 0 Female, 0 Egg		-Withheld-	-Withheld-	D1045/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Supplied by Original Recorder)	22/05/1992	Anon - Herpetofauna Consultants International			-Withheld-	-Withheld-	D1122/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3146 (Approximate)	11/05/1999	Jacinta Challinor, Matthew Ellis	10 ; 7 Male; 1 Female		-Withheld-	-Withheld-	D0137/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Approximate)	29/04/1997	Ecological Survey Unit	12 (Exact)		-Withheld-	-Withheld-	D0137/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3145 (Approximate)	29/05/1997	Ecological Survey Unit	1 (Exact)		-Withheld-	-Withheld-	D0137/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Approximate)	14/05/1997	Ecological Survey Unit	8 (Exact)		-Withheld-	-Withheld-	D0137/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Approximate)	29/04/1997	Ecological Survey Unit	3 (Exact)		-Withheld-	-Withheld-	D0137/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Approximate)	21/05/1997	Ecological Survey Unit	1 (Exact)		-Withheld-	-Withheld-	D0137/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3045 (Approximate)	14/05/1997	Ecological Survey Unit	5 (Exact)		-Withheld-	-Withheld-	D0137/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3146	Before 23/03/2007	YA			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	1996	NEWW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	SW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	SW/YA			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	YA/SW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	YA/SW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	Anon			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	YA/SW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	Anon			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	Anon			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	YA/CCW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	YA/SW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	YA/SW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046	Before 23/03/2007	YA/SW			-Withheld-	-Withheld-	D1118/011/03	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	5 records, between 14/04/2009 and 19/05/2021	Kylie Jones - Mattock; Rachel Jarvis; Remani Jones; Alasdair Thomson; Lindsay Bryan; Jamie Thomson; Alasdair Thomson; Sue Mills; David Mills; Alasdair Thomson; Ellie Wainwright; Sue Mills; Emma Wats...	1 Adult Female; 5 Adult Male; 1 Adult Female; 1 Adult Male; 1 Adult Female; 1 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	04/10/2019	Kate Wilson	1 Sub-adult		-Withheld-	-Withheld-	D1531/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	09/10/2019	Kate Wilson	2 Adult Male; 4 Adult Female; 3 Sub-adult		-Withheld-	-Withheld-	D1531/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3146	12 records, between 02/05/2002 and 27/05/2004	Janet Wilkinson	1 Adult Male (Exact); 2 Adult Female (Exact); 1 Adult (Exact); 2 Adult (Exact); 23 Adult Female (Exact); 19 Adult Female (Exact); P egg/ovum (Exact); 32 Adult Male (Exact); 24 Adult Male (Exact); 1...		-Withheld-	-Withheld-	D1923/001/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Supplied by Original Recorder)	21/04/2021	Simon Cope	1 Male; 1 Female	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3046 (Selected from Interactive Map)	05/05/2021	Paul Furnborough; Emma Ellis	1 Female	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3147 (Selected from Interactive Map)	2 records, between 22/04/2015 and 12/04/2016	Alasdair Thomson; Lindsay Bryan; Alasdair Thomson; Rachael Davis	2 Female; 1 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Triturus cristatus</i> (Great Crested Newt / Madfall Ddwr Gribog)	SJ3146 (Selected from Interactive Map)	10/05/2007	Kylie Jones - Mattock; Matthew McIntyre; Paul Christie	1 Adult Male	Torch Count	-Withheld-	-Withheld-	D1320/014/01	BAP, Bern2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-T, LBAP-W, S7, WCA5	NA
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ3146	3 records, between 04/08/2017 and 10/10/2019	Trevor B Taylor; Mrs Norma Williams; Dr Anne Brenchley			Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01 , D1297/026/01	BAP, BDir1, Bern2, UKBA	PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ3247	22 records, between 12/04/2014 and 04/05/2020	Steven Davies; Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes	2		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01 , D1297/026/01	BAP, BDir1, Bern2, UKBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ3246 (Approximate)	3 records, between 24/01/2009 and 26/05/2020	Mr James Hughes; Anon			Sontley, pools	Occurrence ID: NBN-GA000656-BGBW2009-16444298-106817315	D1297/039/01 , D1852/002/01	BAP, BDir1, Bern2, UKBA	PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ307459 (Approximate)	28/01/2022	Kate Wilson	1 Full-Grown		Aberderfyn		D1531/001/01	BAP, BDir1, Bern2, UKBA	UA
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ3046	2 records, between 24/01/2009 and 11/04/2015	Anon; KA Walker				Occurrence ID: NBN-GA000656-BGBW2009-16442948-106817321; Bird Track	D1852/002/01 , D1297/025/01	BAP, BDir1, Bern2, UKBA	PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ3145	2009	Anon					D1775/001/02	BAP, BDir1, Bern2, UKBA	NA
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ3247	6 records, between 01/02/2017 and 19/01/2020	Heather Cartwright; Mrs Heather Cartwright	100; 50; 50+; 2; 30; 21		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01 , D1297/026/01	BDir2.2, LBAP-C, RL-CR, UKBA, WBA, WCA1.1	PC
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ3147	24/02/2010	Hilary Nash	75+	Reported to recorder	Wrexham, Rhostyllen, S	Survey: Observer data	D0062/008/01	BDir2.2, LBAP-C, RL-CR, UKBA, WBA, WCA1.1	NA
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3247 (Approximate)	7 records, between 03/02/2019 and 26/05/2020	Mrs Heather Cartwright; Mr James Hughes	1; 3; 2		Sontley lodge farm		D1297/039/01 , D1297/026/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, S7, UKBA, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3146 (Approximate)	5 records, between 11/04/2009 and 11/10/2020	Mr Steven Davies; Mrs Norma Williams; Dr Anne Branchley; Neil Hughes	1	Reported to recorder	Bonc-yr-Hafod	Survey: Observer data; Roving. Activity: S. Survey: Observer data	D1297/039/01 , D1297/026/01 , D0062/008/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, S7, UKBA, WBA	PC, NA
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ307459 (Approximate)	28/01/2022	Kate Wilson	1 Full-Grown		Aberderfyn		D1531/001/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, S7, UKBA, WBA	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3246	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16444298-106817316	D1852/002/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, S7, UKBA, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3145	2009	Anon					D1775/001/02	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, S7, UKBA, WBA	NA
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3147	27/06/2009	Jason Newton	1	Reported to recorder	Wrexham, Rhostyllen, S	Activity: H. Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, S7, UKBA, WBA	NA
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ3046	18/05/2011	Neil Hughes	4	Reported to recorder	Johnstown	Activity: S. Survey: Observer data	D0062/008/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-W, S7, UKBA, WBA	NA
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ3247	3 records, between 08/02/2017 and 19/01/2020	Heather Cartwright; Mrs Heather Cartwright	20; 5		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01	BDir2.2, LBAP-C, RL-PX, UKBR, WBA, WCA1.1	PC
<i>Tyto alba</i> (Barn Owl / Tylluan Wen)	SJ34	01/07/2008	John Lawton Roberts	1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	Bern2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, LBAP-W, WBA, WCA1.1, WCA9	NA
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3246	2 records, between 12/06/2005 and 11/06/2011	John Rushton; Neil Hughes	2; 1	Reported to recorder	Sontley, pools	Survey: Observer data; Activity: A. Survey: Observer data	D0062/008/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RL-EN, RL-VU, S7, UKBR, WBR	NA
<i>Vanellus vanellus</i> (Lapwing / Cornchwiglen)	SJ3047	2 records, between 29/12/2007 and 23/02/2010	JA Jackson	80; 2000	Reported to recorder	Wrexham, Pentrebychan	Survey: Observer data	D0062/008/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, RL-EN, RL-VU, S7, UKBR, WBR	NA

Category 2 Species										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ3146	3 records, between 26/04/2013 and 04/08/2017	Glenn E Morris; Trevor B Taylor	1		Rhosllanerchrugog, Brick works	BirdTrack; BirdTrack. Activity: H	D1297/025/01	Bonn2, CITES-A, LBAP-C, RL-NT, UKBA	PC
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ307459 (Approximate)	04/12/2020	Emma Ellis	1 Male	Live Sighting	Aberderfyn	On woodland trail	D1531/001/01	Bonn2, CITES-A, LBAP-C, RL-NT, UKBA	UA
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ3247 (Approximate)	19/01/2020	Mrs Heather Cartwright			Sontley lodge farm		D1297/039/01	Bonn2, CITES-A, LBAP-C, RL-NT, UKBA	PC
<i>Actitis hypoleucos</i> (Common Sandpiper / Pibydd y Dorlan)	SJ3246 (Approximate)	24/04/2020	Mr James Hughes	2		Sontley, pools		D1297/039/01	Bonn2, RL-VU, UKBA, WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3146	4 records, between 14/09/2007 and 10/10/2019	Peter Lawton; Trevor B Taylor; Mrs Norma Williams; Dr Anne Brenchley			Rhosllanerchrugog, Brick works	Birdtrack; BirdTrack	D1297/025/01 , D1297/026/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3247	12 records, between 10/03/2016 and 08/08/2020	Emma Broad; Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes	2; 7; 3; 10; 1		Wrexham, Erddig, Hafod Wood	BirdTrack. Activity: P; BirdTrack	D1297/025/01 , D1297/026/01 , D1297/039/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ307459 (Approximate)	28/01/2022	Kate Wilson	2 Full-Grown		Aberderfyn		D1531/001/01	WBA	UA
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3246	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16444298- 106734516	D1852/002/01	WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3046	2 records, between 24/01/2009 and 11/04/2015	Anon; KA Walker				Occurrence ID: NBN-GA000656-BGBW2009-16443121-106734545; Bird Track	D1852/002/01 , D1297/025/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ3145	2009	Anon					D1775/001/02	WBA	NA
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ321463 (Selected from Interactive Map)	04/10/2016	Gordon Plater	5+		Ruabon	Middle sontley	D1117/001/01	WBA	PC
<i>Agelastica alni</i> (Alder Leaf Beetle)	SJ308464 (Selected from Interactive Map)	27/09/2017	Alasdair Thomson	50+ Adult		Bonc y Hafod Country Park		D1117/001/01	RDB-NR, RL-DD	UA
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wylt)	SJ3247	14 records, between 27/06/2009 and 26/05/2020	Steven Davies; Heather Cartwright; Mrs Heather Cartwright; Jason Newton; Mr James Hughes	4; 12; 2; 7; 6; 3	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Activity: H. Survey: Observer data	D1297/025/01 , D1297/039/01 , D0062/008/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RL-NT, UKBA, WBA	PC, NA
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wylt)	SJ3145	2009	Anon					D1775/001/02	BDir2.1, Bonn2, LBAP-C, LBAP-G, RL-NT, UKBA, WBA	NA
<i>Anas platyrhynchos</i> (Mallard / Hwyaden Wylt)	SJ3246 (Approximate)	10 records, between 12/06/2005 and 25/07/2020	Mr James Hughes; John Rushton	24; 3; 16; 8; 6; 2; 1	Reported to recorder	Sontley, pools	Survey: Observer data	D1297/039/01 , D0062/008/01	BDir2.1, Bonn2, LBAP-C, LBAP-G, RL-NT, UKBA, WBA	PC, NA
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ3247	27/06/2009	Jason Newton	1	Reported to recorder	Wrexham, Erddig, Hafod Wood	Activity: H. Survey: Observer data	D0062/008/01	RL-EN, UKBR, WBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ3147	27/06/2009	Jason Newton	20	Reported to recorder	Wrexham, Rhostyllen, S	Activity: H. Survey: Observer data	D0062/008/01	RL-EN, UKBR, WBA	NA
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ3246 (Approximate)	08/06/2020	Mr James Hughes	8		Sontley, pools		D1297/039/01	RL-EN, UKBR, WBA	PC
<i>Ardea cinerea</i> (Grey Heron / Crëyr Glas)	SJ3247	21/08/2016	Heather Cartwright			Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01	RL-NT	PC
<i>Ardea cinerea</i> (Grey Heron / Crëyr Glas)	SJ3081946277 (GPS Reading)	07/07/2003	Jan Wilkinson	Present		Pond SLH9		D1045/001/01	RL-NT	NA
<i>Arvicola amphibius</i> (Water Vole / Llygoden Bengron y Dwr)	SJ320465	2 records, between 1998 and 1999	J. Walsh; Anon		Burrows, latrines and feeding remains	Middle Sontley Farm	Latrine and burrow	D1118/013/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, LBAP-T, RL-EN, S7, WCA5, WRL-TM[EN]	UA
<i>Aythya ferina</i> (Pochard / Hwyaaden Bengoch)	SJ34	01/04/2007	Norman Hallas	1 Male	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01	BDir2.1, Bonn2, GBNNSIP, LBAP-C, RL-EN, UKBR, WBR	NA
<i>Aythya fuligula</i> (Tufted Duck / Hwyaaden Gopog)	SJ3045	3 records, between 15/03/2007 and 01/04/2007	Norman Hallas	15; 6 Female; 6 Male	Reported to recorder	Ruabon, New Hall	Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-C, WBA	NA
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ3246	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16444298-105771210	D1852/002/01	Bern2, LBAP-C, RL-EN, UKBR	PC
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ3046	2 records, between 24/01/2009 and 11/04/2015	Anon; KA Walker				Occurrence ID: NBN-GA000656-BGBW2009-16443121-105771318; Bird Track	D1852/002/01 , D1297/025/01	Bern2, LBAP-C, RL-EN, UKBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ3245	11/06/2011	Neil Hughes	1	Reported to recorder	Gyfelia	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, RL-EN, UKBR	NA
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ3147	27/06/2009	Jason Newton	1	Reported to recorder	Wrexham, Rhostyllen, S	Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, RL-EN, UKBR	NA
<i>Cinclus cinclus</i> (Dipper / Bronwen y Dwr)	SJ3047	20/10/2004	John Lawton Roberts	2	Reported to recorder	Wrexham, Pentrebychan	Singing. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, LBAP-T, RL-NT, UKBA, WBA	NA
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ3247	20 records, between 27/06/2009 and 04/05/2020	Emma Broad; Heather Cartwright; Mrs Heather Cartwright; Jason Newton; Mr James Hughes	20+; 26; 30; 3; 6; 40+; 10; 5	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack. Activity: B: BirdTrack; Activity: H. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01 , D1297/039/01	BDir2.2, RL-NT, UKBA	PC, NA
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ3246 (Approximate)	04/05/2020	Mr James Hughes			Sontley, pools		D1297/039/01	BDir2.2, RL-NT, UKBA	PC
<i>Curruca communis</i> (Whitethroat / Llwydfron)	SJ3247 (Approximate)	04/05/2020	Mr James Hughes	1		Wrexham, Erddig, Hafod Wood		D1297/039/01	LBAP-C, UKBA, WBA	PC
<i>Curruca communis</i> (Whitethroat / Llwydfron)	SJ3146	3 records, between 28/05/2006 and 03/05/2019	Mrs Norma Williams; Neil Hughes	4; 6	Reported to recorder	Bonc-Y-Hafod	Survey: Observer data	D1297/026/01 , D0062/008/01	LBAP-C, UKBA, WBA	PC, NA
<i>Curruca communis</i> (Whitethroat / Llwydfron)	SJ3147	3 records, all on 27/06/2009	Jason Newton	1 Female; 1 Male; 2+ Juvenile	Reported to recorder	Wrexham, Rhostyllen, S	Activity: FF. Survey: Observer data; Activity: FL. Survey: Observer data	D0062/008/01	LBAP-C, UKBA, WBA	NA
<i>Cygnus olor</i> (Mute Swan / Alarch Dof)	SJ3246 (Approximate)	5 records, between 04/05/2020 and 25/07/2020	Mr James Hughes	2		Sontley, pools		D1297/039/01	BDir2.2, Bonn2, GBNSIP, LBAP-C, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3247	11 records, between 02/06/2010 and 05/09/2020	Heather Cartwright; Mrs Heather Cartwright; Neil Hughes	5; 2; 4; 8; 3	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; BirdTrack. Activity: N; Roving. Activity: N. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01 , D1297/039/01	Bern2, LBAP-C, RL-VU, UKBR, WBA	PC, NA
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3245	11/06/2011	Neil Hughes	4	Reported to recorder	Gyfelia	Activity: ON. Survey: Observer data	D0062/008/01	Bern2, LBAP-C, RL-VU, UKBR, WBA	NA
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ3246 (Approximate)	6 records, between 21/04/2020 and 25/07/2020	Mr James Hughes	5+; c20; 8+; 14; 10+; 1		Sontley, pools		D1297/039/01	Bern2, LBAP-C, RL-VU, UKBR, WBA	PC
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ3061246420	05/05/2021	Anon			Brynhyfryd, Johnstown, Wrexham	Alive	D1688/007/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, WRL- TM[VU]	NA
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ3046	3 records, between 2005 and 20/08/2012	Anon; Jeffrey, Sue	1 adult			Baby brought into Wrexham HH rescue. Mammal Society (Mammal Atlas)	D1847/001/01 , D1844/001/03	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, WRL- TM[VU]	UA, NA
<i>Ernoporicus fagi</i>	SJ3247	26/04/1994	Adrian Fowles	1 Adult		Big Wood, Erddig		D0217/001/04	RDB-NA	NA
<i>Fulica atra</i> (Coot / Cwtiar)	SJ3246	7 records, between 12/06/2005 and 25/07/2020	John Rushton; Mr James Hughes	2; 4	Reported to recorder	Sontley, pools	Survey: Observer data	D0062/008/01 , D1297/039/01	BDir2.1, RL-NT	NA, PC
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ3045	15/03/2007	Norman Hallas	2	Reported to recorder	Ruabon, New Hall	in reedbed (flew off). Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, UKBA, WBA	NA
<i>Gallinula chloropus</i> (Moorhen / Iar Ddwr)	SJ3247	4 records, between 17/06/2018 and 08/08/2020	Heather Cartwright; Mrs Heather Cartwright	4; 2		Wrexham, Erddig, Hafod Wood	Activity: FL	D1297/025/01 , D1297/039/01	BDir2.2, Bonn2, RL-VU, UKBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Gallinula chloropus</i> (Moorhen / lar Ddwr)	SJ3246 (Approximate)	3 records, between 27/04/2020 and 25/07/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	BDir2.2, Bonn2, RL-VU, UKBA	PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3146	3 records, between 14/09/2007 and 03/05/2019	Peter Lawton; Trevor B Taylor; Mrs Norma Williams			Rhosllanerchrugog, Brick works	Birdtrack; BirdTrack	D1297/025/01 , D1297/026/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3247	12 records, between 27/06/2009 and 05/09/2020	Steven Davies; Heather Cartwright; Jason Newton; Neil Hughes; Mrs Heather Cartwright; Mr James Hughes	1; 3; 25; 5	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Activity: H. Survey: Observer data; Roving. Activity: N. Survey: Observer data	D1297/025/01 , D0062/008/01 , D1297/039/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC, NA
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3246	9 records, between 11/06/2011 and 25/07/2020	Neil Hughes; Mr James Hughes	22; 15; 10+; 4; 5; 1	Reported to recorder	Sontley, pools	Activity: FL. Survey: Observer data	D0062/008/01 , D1297/039/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	NA, PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ3245	11/06/2011	Neil Hughes	4	Reported to recorder	Gyfelia	Activity: N. Survey: Observer data	D0062/008/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	NA
<i>Ischnura pumilio</i> (Scarce Blue-tailed Damselfly / Mursen Dinlas Fach)	SJ31044643 (Selected from Interactive Map)	21/06/2017	Susan Loose	4 Adult	Live Sighting	Hafod banks		D1117/001/01	LBAP-G, LBAP-S, RL-NT	KC
<i>Ischnura pumilio</i> (Scarce Blue-tailed Damselfly / Mursen Dinlas Fach)	SJ30824647 (Selected from Interactive Map)	21/06/2017	Susan Loose	2 Adult	Live Sighting	Hafod banks		D1117/001/01	LBAP-G, LBAP-S, RL-NT	KC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3145	24/01/2014	Mark T Breaks	35		Johnstown, SE	BirdTrack	D1297/025/01	BDir2.2, LBAP-C, LBAP-G, LBAP-S, RL-DD, UKBA, WBA	PC
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3247	2 records, between 12/04/2014 and 09/04/2020	Steven Davies; Mrs Heather Cartwright	3		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01	BDir2.2, LBAP-C, LBAP-G, LBAP-S, RL-DD, UKBA, WBA	PC
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3146	03/05/2019	Mrs Norma Williams			Bonc-Y-Hafod		D1297/026/01	BDir2.2, LBAP-C, LBAP-G, LBAP-S, RL-DD, UKBA, WBA	PC
<i>Larus fuscus</i> (Lesser Black-backed Gull / Gwylan Gefnddu Leiaf)	SJ3246 (Approximate)	27/04/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	BDir2.2, LBAP-C, LBAP-G, LBAP-S, RL-DD, UKBA, WBA	PC
<i>Larus glaucoides</i> (Iceland Gull / Gwylan yr Arctig)	SJ3145	24/01/2014	Mark T Breaks	1		Johnstown, SE	Birdtrack. 1w	D1297/025/01	RL-VU, UKBA	PC
<i>Larus glaucoides</i> (Iceland Gull / Gwylan yr Arctig)	SJ3045	24/01/2014	Anon			Ruabon, New Hall	Birdtrack.	D1297/025/01	RL-VU, UKBA	PC
<i>Lepidium latifolium</i> (Dittander / Pupurlys Llydanddail)	SJ306459	07/07/2011	Phillips, J.			Black Brook	E of Johnstown. Old industrial site.	D1169/004/02	LBAP-C, LBAP-F, RDB-NS	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lepidium latifolium</i> (Dittander / Pupurlys Llydanddail)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 1	D1531/001/01	LBAP-C, LBAP-F, RDB-NS	PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen lwyd)	SJ3247	06/08/2017	Heather Cartwright	2		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01	Bern2, LBAP-C, LBAP-T, RL-NT, UKBA	PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen lwyd)	SJ320470	08/07/2008	Anon				Farmland	D2008/001/01	Bern2, LBAP-C, LBAP-T, RL-NT, UKBA	UA
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3247	3 records, between 21/08/2016 and 19/01/2020	Heather Cartwright; Mrs Heather Cartwright			Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01	Bern2, LBAP-C, WBA	PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3146 (Approximate)	3 records, between 07/03/1997 and 10/10/2019	Mrs Shirley Williams; Mrs Norma Williams; Dr Anne Brenchley			Hafod Woodlands		D1297/042/01 , D1297/026/01	Bern2, LBAP-C, WBA	PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ3246	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16444298-106179629	D1852/002/01	Bern2, LBAP-C, WBA	PC
<i>Phalacrocorax carbo</i> (Cormorant / Mulfran)	SJ320463 (Selected from Interactive Map)	04/10/2016	Gordon Plater	1		Ruabon	Middle sontley fisheries	D1117/001/01	LBAP-C, LBAP-G, RL-NT, WBA	PC
<i>Phalacrocorax carbo</i> (Cormorant / Mulfran)	SJ3247 (Approximate)	04/05/2020	Mr James Hughes	1		Wrexham, Erddig, Hafod Wood		D1297/039/01	LBAP-C, LBAP-G, RL-NT, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Phalacrocorax carbo</i> (Cormorant / Mulfran)	SJ3246 (Approximate)	24/04/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	LBAP-C, LBAP-G, RL-NT, WBA	PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ3247 (Approximate)	3 records, between 13/04/2020 and 08/08/2020	Mrs Heather Cartwright; Mr James Hughes	1		Sontley lodge farm	Male	D1297/039/01	Bern2, LBAP-C, LBAP-G, LBAP-S, UKBA, WBA	PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3046	2 records, between 18/05/2011 and 11/04/2015	KA Walker; Neil Hughes	3	Reported to recorder	Johnstown	Bird Track; Activity: FF. Survey: Observer data	D1297/025/01 , D0062/008/01	LBAP-C, UKBA, WBR	PC, NA
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3146	5 records, between 01/06/2007 and 03/05/2019	Trevor B Taylor; Mrs Norma Williams; Neil Hughes	2; 4; 5	Reported to recorder	Rhosllanerchrugog, Brick works	BirdTrack; Survey: Observer data; Roving record. Survey: Observer data; Roving. Activity: T. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01	LBAP-C, UKBA, WBR	PC, NA
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ3247 (Approximate)	2 records, between 16/04/2020 and 21/04/2020	Mr James Hughes	1		Wrexham, Erddig, Hafod Wood		D1297/039/01	LBAP-C, UKBA, WBR	PC
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ307459 (Approximate)	2 records, between 24/11/2015 and 26/08/2020	Karl Martin; Emma Ellis	1 Full-Grown	Auditory record	Aberderfyn	Heard calling	D1531/001/01	Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, WBA	PC
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ3247	3 records, between 03/02/2019 and 29/04/2020	Mrs Heather Cartwright; Mr James Hughes	1		Sontley lodge farm		D1297/026/01 , D1297/039/01	Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-S, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Pinus sylvestris</i> (Scots Pine / Pinwydden yr Alban)	SJ3047	12/10/2015	Stead, M.O.			Pentre Bychan		D1169/004/02	RDB-NS	NA
<i>Pinus sylvestris</i> (Scots Pine / Pinwydden yr Alban)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	RDB-NS	NA
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ3247	9 records, between 25/12/2007 and 27/04/2020	Steven Davies; Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes; Neil Hughes	1; 4	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Survey: Observer data	D1297/025/01 , D1297/039/01 , D1297/026/01 , D0062/008/01	Bern2, LBAP-C, WBA	PC, NA
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ3246 (Approximate)	2 records, between 24/04/2020 and 27/04/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	Bern2, LBAP-C, WBA	PC
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ3146 (Approximate)	3 records, between 07/03/1997 and 11/10/2020	Mr Steven Davies; Mrs Shirley Williams; Dr Anne Brenchley	2		Bonc-yr-Hafod		D1297/039/01 , D1297/042/01 , D1297/026/01	Bern2, LBAP-C, WBA	PC
<i>Scolopax rusticola</i> (Woodcock / Cyffyllog)	SJ3247	15/02/2007	John Lawton Roberts	1	Reported to recorder	Wrexham, Erddig, Hafod Wood	Survey: Observer data	D0062/008/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, UKBR, WBA	NA
<i>Stathmopoda pedella</i> (Alder Signal / Arwyddwr Gwern)	SJ308468	2 records, both on 27/06/2017	Susan Loose	1 Adult	Live Sighting	Bonc-yr-Hafod	Adult; Don't think it can be anything else	D2067/001/01 , D1117/001/01	RDB-NB	NA, KC
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ3247	2 records, between 10/03/2016 and 16/04/2020	Emma Broad; Mr James Hughes	1; 3		Wrexham, Erddig, Hafod Wood	BirdTrack. Activty: H	D1297/025/01 , D1297/039/01	BDir2.2, GBNNSIP, RL-NT	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ3246	4 records, between 24/01/2009 and 26/05/2020	Anon; Neil Hughes; Mr James Hughes	5; 1	Reported to recorder		Occurrence ID: NBN-GA000656-BGBW2009-16444298-106179631; Survey: Observer data	D1852/002/01 , D0062/008/01 , D1297/039/01	BDir2.2, GBNNSIP, RL-NT	PC, NA
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ3046	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16442803-106179337	D1852/002/01	BDir2.2, GBNNSIP, RL-NT	PC
<i>Sylvia borin</i> (Garden Warbler / Telor yr Ardd)	SJ3247 (Approximate)	3 records, between 27/06/2009 and 08/08/2020	Mrs Heather Cartwright; Mr James Hughes; Jason Newton	1	Reported to recorder	Sontley lodge farm	Activity: A. Survey: Observer data	D1297/039/01 , D0062/008/01	LBAP-C, WBA	PC, NA
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ307459	3 records, between 02/07/2014 and 08/10/2021	Kate Wilson; Nigel Douglas; Emma Ellis	3; 1; 1 Adult Female		Aberderfryn		D1531/001/01	LBAP-S, RL-DD	PC
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ307461	3 records, all on 20/06/2022	Naomi Chapple-Parry	3		Aberderfryn	Flying around overflown culvert.	D1531/001/01	LBAP-S, RL-DD	PC
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ309454	2 records, both on 02/09/2008	Peter Heywood	2-5 ovipositing female; 6-20 adult		Hafod Nature Reserve, Johnstown, Wrexham		D1295/001/04	LBAP-S, RL-DD	NA
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ321465	05/08/1989	R.W. Whitehead	6-20 adult		Middle Sontley		D1295/001/04	LBAP-S, RL-DD	NA
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ3146	20/12/2014	Steven Davies	1		Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01	BDir2.2, RL-VU, UKBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ3247	7 records, between 05/04/2008 and 27/04/2020	Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes; Neil Hughes	2; 1	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; BirdTrack. Activity: P; Survey: Observer data	D1297/025/01 , D1297/039/01 , D1297/026/01 , D0062/008/01	BDir2.2, RL-VU, UKBR	PC, NA
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ3246 (Approximate)	08/06/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	BDir2.2, RL-VU, UKBR	PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ3147	27/06/2009	Jason Newton	1	Reported to recorder	Wrexham, Rhostyllen, S	Activity: H. Survey: Observer data	D0062/008/01	BDir2.2, RL-VU, UKBR	NA

Category 3 Species										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Acer campestre</i> (Field Maple / Masarnen Fach)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 1	D1531/001/01	LI-48[LS], LI-49[LS]	PC
<i>Aeshna cyanea</i> (Southern Hawker / Gwas Neidr y De)	SJ308468	23/08/2010	Bryan Formstone	1 adult		Hafod Banks LNR, Rhosllanerchrugog		D1295/001/04	LBAP-S	NA
<i>Aeshna cyanea</i> (Southern Hawker / Gwas Neidr y De)	SJ309454	02/09/2008	Peter Heywood	2-5 adult		Hafod Nature Reserve, Johnstown, Wrexham		D1295/001/04	LBAP-S	NA
<i>Aeshna grandis</i> (Brown Hawker / Gwas Neidr Brown)	SJ309454	2 records, both on 02/09/2008	Peter Heywood	1 ovipositing female; 2-5 adult		Hafod Nature Reserve, Johnstown, Wrexham		D1295/001/04	LBAP-G, LBAP-S	NA
<i>Aeshna grandis</i> (Brown Hawker / Gwas Neidr Brown)	SJ321465	05/08/1989	R.W. Whitehead	1 adult		Middle Sontley		D1295/001/04	LBAP-G, LBAP-S	NA
<i>Aeshna grandis</i> (Brown Hawker / Gwas Neidr Brown)	SJ3082646387 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH5 - Hafod Mitigation Ponds	Ovipositing	D1045/001/01	LBAP-G, LBAP-S	NA
<i>Aeshna grandis</i> (Brown Hawker / Gwas Neidr Brown)	SJ3085046392 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH4 - Hafod Mitigation Ponds		D1045/001/01	LBAP-G, LBAP-S	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Anax imperator</i> (Emperor Dragonfly / Ymerawdwr)	SJ307461 (Estimated Centroid of Site))	15/07/2022	Naomi Chapple-Parry	1		Aberderfryn		D1531/001/01	LBAP-S	PC
<i>Anax imperator</i> (Emperor Dragonfly / Ymerawdwr)	SJ30724609 (Selected from Interactive Map)	02/07/2014	Karl Martin	1 Adult Female	Live Sighting	Aberderfryn Nature Reserve	Seen hunting around small ponds created for amphibian conservation	D1531/001/01	LBAP-S	PC
<i>Anser anser</i> (Greylag Goose / Gwydd Wylt)	SJ3246 (Approximate)	6 records, between 25/03/2020 and 25/07/2020	Mr James Hughes	8; 2; 4; 5; 1		Sontley, pools		D1297/039/01	BDir2.1, Bonn2, LBAP-C, UKBA, WCA1.2	PC
<i>Argynnis paphia</i> (Silver-washed Fritillary / Britheg Arian)	SJ312466	12/08/2021	A.N. & J.E.Graham	1		Bonc-yr-Hafod CP	patrolling up and down a ride	D1858/004/01	LBAP-C, LBAP-F	NA
<i>Blackstonia perfoliata</i> (Yellow-wort / Y Ganrhi Felen)	SJ307459 (Approximate)	2 records, between Summer 2011 and 22/07/2016	Tom Brannigan; Joe Phillips	Present		Aberderfryn	Found in field 1	D1531/001/01	LBAP-G, LI-48[LR], LI-49[LS], LI-52[LS]	PC
<i>Bombus hortorum</i> (Small Garden Bumblebee)	SJ3247	22/05/1977	J.M. Brummitt	1 present	Field record	Hafod Wood, Erddig		D0217/001/04	LBAP-F	NA
<i>Bombus lapidarius</i> (Red-tailed Bumblebee)	SJ312467	31/03/2005	J.B. Formstone	1 Adult		Hafod bank (LNR)	Method: Daytime observation	D1650/001/02	LBAP-F	NA
<i>Bombus pratorum</i> (Early Bumblebee)	SJ312467	31/03/2005	J.B. Formstone	1 Adult		Hafod bank (LNR)	Method: Daytime observation	D1650/001/02	LBAP-F	NA
<i>Bombus terrestris</i> (Buff-tailed Bumblebee)	SJ312467	31/03/2005	J.B. Formstone	2 Adult		Hafod bank (LNR)	Method: Daytime observation	D1650/001/02	LBAP-F	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bromopsis ramosa</i> (Hairy-brome / Pawrwellt Blewog)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	LI-48[LS]	NA
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ3145	2 records, between 11/02/2017 and 23/03/2017	Ian M Spence	1		Johnstown, SE	BirdTrack	D1297/025/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ3146	9 records, between 07/03/1997 and 10/10/2019	Peter Lawton; Ian M Spence; Trevor B Taylor; Mrs Shirley Williams; Mrs Norma Williams; Dr Anne Brenchley; Neil Hughes	2; 1	Reported to recorder	Rhosllanerchrugog, Brick works	Birdtrack; BirdTrack; Survey: Observer data	D1297/025/01 , D1297/042/01 , D1297/026/01 , D0062/008/01	Bonn2, CITES-A, LBAP-C	PC, NA
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ3247	13 records, between 05/04/2008 and 27/04/2020	Heather Cartwright; Mrs Heather Cartwright; Neil Hughes; Mr James Hughes	2; 1	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01 , D1297/039/01	Bonn2, CITES-A, LBAP-C	PC, NA
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ3147	7 records, between 27/06/2009 and 26/05/2019	Richard Burkmar; Ian M Spence; Colin Brooks; Mr Ian Spence; Jason Newton	1; 2	Reported to recorder	Wrexham, Rhostyllen, S	BirdTrack; Soaring; Activity: H. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01	Bonn2, CITES-A, LBAP-C	PC, NA
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ31184573 (Selected from Interactive Map)	20/08/2022	Leah Williams	1 Juvenile		New Hall Road		D1117/001/01	Bonn2, CITES-A, LBAP-C	UA
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ307459 (Approximate)	24/11/2015	Karl Martin	Present Full- Grown		Aberderfyn		D1531/001/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ3046	11/04/2015	KA Walker	2		Johnstown	Bird Track	D1297/025/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ3246 (Approximate)	3 records, between 24/04/2020 and 25/07/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	Bonn2, CITES-A, LBAP-C	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Callitriche platycarpa</i> (Various-leaved Water-starwort / Brigwlydd y Gwanwyn)	SJ3046 (Supplied by Original Recorder (Checked))	24/06/2002 to 27/06/2002	Nick Stewart			SSSI: Stryt Las a'r Hafod; West of Hafod House		D0026/030/01	LI-48[LS], LI-49[LS], LI-50[LR], LI-51[LS], LI-VP-50[LR], LI-VP-51[LR]	PC
<i>Campyllum protensum</i>	SJ3045	07/04/2008	British Bryological Society Meeting			-Withheld-	-Withheld-	D1075/001/06	LI-49[LR]	NA
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ3247	19 records, between 27/06/2009 and 04/05/2020	Steven Davies; Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes; Jason Newton	1; 2	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Activity: H. Survey: Observer data	D1297/025/01 , D1297/039/01 , D1297/026/01 , D0062/008/01	Bern2, LBAP-A, LBAP-C	PC, NA
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ3246 (Approximate)	5 records, between 16/04/2020 and 25/07/2020	Mr James Hughes	4; 2		Sontley, pools		D1297/039/01	Bern2, LBAP-A, LBAP-C	PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ3146 (Approximate)	3 records, between 03/05/2019 and 11/10/2020	Mr Steven Davies; Mrs Norma Williams; Dr Anne Brenchley	c5		Bonc-yr-Hafod		D1297/039/01 , D1297/026/01	Bern2, LBAP-A, LBAP-C	PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ307459	08/10/2021	Kate Wilson	1		Aberderfyn		D1531/001/01	Bern2, LBAP-A, LBAP-C	UA
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ3046	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16443121-106437739	D1852/002/01	Bern2, LBAP-A, LBAP-C	PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ3145	2009	Anon					D1775/001/02	Bern2, LBAP-A, LBAP-C	NA
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ3147	27/06/2009	Jason Newton	2	Reported to recorder	Wrexham, Rhostyllen, S	Activity: H. Survey: Observer data	D0062/008/01	Bern2, LBAP-A, LBAP-C	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Celastrina argiolus</i> (Holly Blue / Glesyn Celyn)	SJ311466	07/08/2005	Adrian R. Jones	2 Adult		Bonc-yr-hafod (Picnic Mountain)		D1373/001/05	LBAP-C	NA
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ3247	4 records, between 27/06/2009 and 03/03/2019	Heather Cartwright; Mrs Heather Cartwright; Jason Newton	1	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Activity: H. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01	Bern2, LBAP-C	PC, NA
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ3145	19/03/2011	Neil Hughes	1	Reported to recorder	Johnstown, SE	Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Chara virgata</i> (Delicate Stonewort)	SJ308463	27/06/2002	Anon			West of Hafod House		D0823/001/02	LI-48[LS], LI-VP-50[LR]	NA
<i>Chara virgata</i> (Delicate Stonewort)	SJ307462	27/06/2002	Anon			West of Hafod House		D0823/001/02	LI-48[LS], LI-VP-50[LR]	NA
<i>Chara virgata</i> (Delicate Stonewort)	SJ308462	27/06/2002	Anon			West of Hafod House		D0823/001/02	LI-48[LS], LI-VP-50[LR]	NA
<i>Coenagrion puella</i> (Azure Damselfly / Mursen Las Asur)	SJ307459 (Approximate)	02/07/2014	Nigel Douglas	2		Aberderfyn		D1531/001/01	LBAP-S	PC
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3146	04/08/2017	Trevor B Taylor			Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01	BDir2.2, LBAP-G, UKBA	PC
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3247	4 records, between 24/04/2016 and 29/04/2020	Heather Cartwright; Mr James Hughes	5; 1		Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/039/01	BDir2.2, LBAP-G, UKBA	PC
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ3246 (Approximate)	25/07/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	BDir2.2, LBAP-G, UKBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ3146	5 records, between 20/12/2014 and 11/10/2020	Steven Davies; Trevor B Taylor; Mrs Norma Williams; Dr Anne Brechley; Mr Steven Davies	1		Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01 , D1297/026/01 , D1297/039/01	BDIr2.1, UKBA	PC
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ3247	25 records, between 12/04/2014 and 05/09/2020	Steven Davies; Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes			Wrexham, Erddig, Hafod Wood	BirdTrack	D1297/025/01 , D1297/026/01 , D1297/039/01	BDIr2.1, UKBA	PC
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ3147	2 records, between 27/06/2009 and 11/09/2018	Ian M Spence; Jason Newton	1	Reported to recorder	Wrexham, Rhostyllen, S	Activity: H. Survey: Observer data	D1297/025/01 , D0062/008/01	BDIr2.1, UKBA	PC, NA
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ307459 (Approximate)	28/01/2022	Kate Wilson	2 Full-Grown		Aberderfyn		D1531/001/01	BDIr2.1, UKBA	UA
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ3045	2 records, between 01/12/2006 and 25/01/2009	Anon; JA Jackson	2000	Reported to recorder		Occurrence ID: NBN-GA000656-BGBW2009-16442655-106987107; due SW. Survey: Observer data	D1852/002/01 , D0062/008/01	BDIr2.1, UKBA	PC, NA
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ3246	8 records, between 24/01/2009 and 25/07/2020	Anon; Mr James Hughes				Occurrence ID: NBN-GA000656-BGBW2009-16444298-106987168	D1852/002/01 , D1297/039/01	BDIr2.1, UKBA	PC
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ3047	12/11/2004	JA Jackson	3000	Reported to recorder	Wrexham, Pentrebychan	Survey: Observer data	D0062/008/01	BDIr2.1, UKBA	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ3046	11/04/2015	KA Walker			Johnstown	Bird Track	D1297/025/01	BDir2.1, UKBA	PC
<i>Cordulegaster boltonii</i> (Golden-ringed Dragonfly / Gwas Neidr Eurdorchog)	SJ308468	23/08/2010	Bryan Formstone	1 adult		Hafod Banks LNR, Rhosllanerchrugog		D1295/001/04	LBAP-S	NA
<i>Corvus corax</i> (Raven / Cigfran)	SJ3146	20/12/2014	Steven Davies	1		Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01	LBAP-C	PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ307459 (Approximate)	04/03/2021	Emma Ellis	2 Full-Grown		Aberderfyn	Flying over north to south	D1531/001/01	LBAP-C	PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ3246	2 records, between 11/06/2011 and 25/07/2020	Neil Hughes; Mr James Hughes	2; 1	Reported to recorder	Sontley, pools	Survey: Observer data	D0062/008/01 , D1297/039/01	LBAP-C	NA, PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ3247 (Approximate)	2 records, between 16/04/2020 and 26/04/2020	Mrs Heather Cartwright; Mr James Hughes	1		Sontley lodge farm		D1297/039/01	LBAP-C	PC
<i>Curruca curruca</i> (Lesser Whitethroat / Llwydfron Fach)	SJ3247	2 records, between 18/04/2007 and 24/04/2016	Heather Cartwright; John Lawton Roberts	1 Male	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Singing male. Survey: Observer data	D1297/025/01 , D0062/008/01	LBAP-C, LBAP-D, LBAP-F	PC, NA
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ3146	5 records, between 07/03/1997 and 11/10/2020	Steven Davies; Mrs Shirley Williams; Mrs Norma Williams; Dr Anne Brenchley; Mr Steven Davies	3; 1		Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01 , D1297/042/01 , D1297/026/01 , D1297/039/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ3247	30 records, between 27/06/2009 and 05/09/2020	Steven Davies; Emma Broad; Heather Cartwright; Mrs Heather Cartwright; Jason Newton; Neil Hughes; Mr James Hughes	1; 3; 6; 5	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; BirdTrack. Activity: B; Activity: H. Survey: Observer data; Roving. Activity: NY. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01 , D1297/039/01	Bern2, LBAP-C	PC, NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ307459 (Approximate)	2 records, between 24/11/2015 and 28/01/2022	Kate Wilson; Karl Martin	2 Full-Grown; Present Full- Grown		Aberderfyn		D1531/001/01	Bern2, LBAP-C	UA, PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ3246	5 records, between 24/01/2009 and 25/07/2020	Anon; Mr James Hughes				Occurrence ID: NBN-GA000656- BGBW2009- 16444298- 105771212	D1852/002/01 , D1297/039/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ3046	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16442803- 105770558	D1852/002/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ3145	2009	Anon					D1775/001/02	Bern2, LBAP-C	NA
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ3247	12 records, between 27/06/2009 and 26/05/2020	Heather Cartwright; Mrs Heather Cartwright; Jason Newton; Mr James Hughes	1; 4	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Activity: H. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01 , D1297/039/01	Bern2, LBAP-C	PC, NA
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ307459	07/03/2022	Kate Wilson	1		Aberderfyn		D1531/001/01	Bern2, LBAP-C	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ3246	5 records, between 24/01/2009 and 25/07/2020	Anon; Neil Hughes; Mr James Hughes	2; 1	Reported to recorder		Occurrence ID: NBN-GA000656-BGBW2009-16444298-106437698; Survey: Observer data	D1852/002/01 , D0062/008/01 , D1297/039/01	Bern2, LBAP-C	PC, NA
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ3146	10/10/2019	Dr Anne Brenchley			SJ3145 Bonc-y-Hafod CP		D1297/026/01	Bern2, LBAP-C	PC
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ321465	3 records, all on 05/08/1989	R.W. Whitehead	2-5 ovipositing female; 2-5 copulating pair or tandem; 21-100 adult		Middle Sontley		D1295/001/04	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3093946423 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH3 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3082346220 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH10 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3080746372 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH6 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3082146344 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH7 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3084346309 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH8 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3081946277 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH9 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3094946387 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH2 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3085046392 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH4 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3082646387 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH5 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ3096146404 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH1 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Fallopia convolvulus</i> (Black-bindweed / Y Glymog Ddu)	SJ3046	12/10/2015	Stead, M.O.			Johnstown		D1169/004/02	GBNNSIP, LI-48[LS]	NA
<i>Favonius quercus</i> (Purple Hairstreak / Brithribin Porffor)	SJ3246 (Estimated Centroid of Site))	1995	Bryan Formstone	1		SJ3246	Breeding: No. Mature: Yes. Record type: Field record / observation	D0127/001/02	LBAP-C	NA
<i>Favonius quercus</i> (Purple Hairstreak / Brithribin Porffor)	SJ311466	3 records, between 27/07/2002 and 03/09/2005	Rob W Whitehead; Adrian R. Jones	2; 3 Adult; 7 Adult	Field record	Bonc-yr-hafod (Picnic Mountain)		D1373/001/05	LBAP-C	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Hygroamblystegium varium</i> (Willow Feather-moss)	SJ3045	07/04/2008	British Bryological Society Meeting			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LBAP-F, LI-48[LR], LI-49[EX], LI-50[LR], LI-51[LR], LI-52[LR]	NA
<i>Ischnura elegans</i> (Blue-tailed Damselfly / Mursen Dinlas Gyffredin)	SJ321465	2 records, both on 05/08/1989	R.W. Whitehead	21-100 adult; 2-5 copulating pair or tandem		Middle Sontley		D1295/001/04	LBAP-S	NA
<i>Ischnura elegans</i> (Blue-tailed Damselfly / Mursen Dinlas Gyffredin)	SJ307459 (Approximate)	02/07/2014	Nigel Douglas	1		Aberderfyn		D1531/001/01	LBAP-S	PC
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3093946423 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH3 - Hafod Mitigation Ponds		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3081946277 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH9 - Hafod Mitigation Ponds		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3084346309 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH8 - Hafod Mitigation Ponds		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3080746372 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH6 - Hafod Mitigation Ponds		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3096146404 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH1 - Hafod Mitigation Ponds		D1045/001/01	LI-48[LR]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3117046486 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH16 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3077646610 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH18 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3080646458 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH13 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3082246471 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH14 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3117946486 (GPS Reading)	06/08/2003	Jan Wilkinson	Present		Pond SLH17 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3072746186 (GPS Reading)	06/08/2003	Jan Wilkinson	Present		Pond SLH12 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3085747011 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH21 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3084546986 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH20 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3077746630 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH19 - Hafod		D1045/001/01	LI-48[LR]	NA
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ3086047034 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH22 - Hafod		D1045/001/01	LI-48[LR]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Juncus inflexus</i> (Hard Rush / Brwynen Galed)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 1,2,3	D1531/001/01	LI-48[LR]	PC
<i>Kindbergia praelonga</i> (Common Feather-moss)	SJ3045	07/04/2008	British Bryological Society Meeting			-Withheld-	-Withheld-	D1075/001/06	LBAP-C	NA
<i>Lactuca serriola</i> (Prickly Lettuce / Letusen Bigog)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	GBNNSIP, LBAP- C, LI-51[LS]	NA
<i>Lamiastrum galeobdolon subsp. montanum</i>	SJ3245	10/11/2014	Shanklin, J.			Gyfelia		D1169/004/02	LI-48[LS], LI- 49[LS]	NA
<i>Lasioglossum leucopus</i> (White-footed Furrow Bee)	SJ312466	12/08/2021	A.N. & J.E.Graham	1		Bonc-yr-Hafod		D0135/022/01	LBAP-C	NA
<i>Lestes sponsa</i> (Emerald Damselfly / Mursen Werdd)	SJ30824647 (Selected from Interactive Map)	21/06/2017	Susan Loose	2 Juvenile Male; 6 Exuviae; 2 Pre- flight Emergent Adult	Live Sighting	Hafod banks		D1117/001/01	LBAP-S, LI-50	KC
<i>Libellula depressa</i> (Broad-bodied Chaser / Picellwr Praff)	SJ3085046392 (GPS Reading)	05/08/2003	Jan Wilkinson	Present		Pond SLH4 - Hafod Mitigation Ponds		D1045/001/01	LBAP-S	NA
<i>Libellula depressa</i> (Broad-bodied Chaser / Picellwr Praff)	SJ30724609 (Selected from Interactive Map)	02/07/2014	Karl Martin	2 Adult Male	Live Sighting	Aberderfyn Nature Reserve	Seen hunting around small ponds created for amphibian conservation	D1531/001/01	LBAP-S	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Libellula depressa</i> (Broad-bodied Chaser / Picellwr Praff)	SJ307459 (Approximate)	02/07/2014	Nigel Douglas	1 Male		Aberderfyn		D1531/001/01	LBAP-S	PC
<i>Libellula quadrimaculata</i> (Four-spotted Chaser / Picellwr Pedwar Nod)	SJ321465	05/08/1989	R.W. Whitehead	1 adult		Middle Sontley		D1295/001/04	LBAP-S	NA
<i>Lysimachia vulgaris</i> (Yellow Loosestrife / Trewyn)	SJ307459 (Approximate)	22/07/2016	Tom Brannigan	Many		Aberderfyn		D1531/001/01	LBAP-G, LI-48[LS], LI-49[LS], LI-51[LS], LI-VP-51[LS]	PC
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ3082646387 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH5 - Hafod Mitigation Ponds		D1045/001/01	LBAP-A	NA
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ3080746372 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH6 - Hafod Mitigation Ponds		D1045/001/01	LBAP-A	NA
<i>Milium effusum</i> (Wood Millet / Miledwellt y Coed)	SJ3247	28/04/2006	Lawton Roberts, J.			Plas Grono	Hafod Wood	D1169/004/02	LBAP-G, LI-48[LS], LI-49[LS], LI-52[LR]	NA
<i>Motacilla alba</i> (Pied/White Wagtail / Siglen Fraith/Wen)	SJ3246	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16444298-106734517	D1852/002/01	Bern2, LBAP-C, LBAP-T	PC
<i>Motacilla alba</i> (Pied/White Wagtail / Siglen Fraith/Wen)	SJ3145	2009	Anon					D1775/001/02	Bern2, LBAP-C, LBAP-T	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Motacilla alba yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ3247 (Approximate)	4 records, between 02/06/2010 and 16/04/2020	Mrs Heather Cartwright; Mr James Hughes; Neil Hughes	1; 2	Reported to recorder	Sontley lodge farm	Roving. Activity: N. Survey: Observer data	D1297/039/01 , D0062/008/01	Bern2, LBAP-T	PC, NA
<i>Motacilla alba yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ3246 (Approximate)	4 records, between 16/04/2020 and 26/05/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	Bern2, LBAP-T	PC
<i>Mycelis muralis</i> (Wall Lettuce / Gwylaeth y Fagwyr)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	LI-52[LS]	NA
<i>Myriophyllum spicatum</i> (Spiked Water-milfoil / Myrddail Twysog)	SJ3046 (Supplied by Original Recorder (Checked))	24/06/2002 to 27/06/2002	Nick Stewart			SSSI: Stryt Las a'r Hafod; West of Hafod House		D0026/030/01	LI-48[LR], LI-50[LR], LI-VP-50[LS], LI-VP-51[LS]	NA
<i>Myriophyllum spicatum</i> (Spiked Water-milfoil / Myrddail Twysog)	SJ3080746372 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH6 - Hafod Mitigation Ponds		D1045/001/01	LI-48[LR], LI-50[LR], LI-VP-50[LS], LI-VP-51[LS]	NA
<i>Myriophyllum spicatum</i> (Spiked Water-milfoil / Myrddail Twysog)	SJ3082646387 (GPS Reading)	05/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH5 - Hafod Mitigation Ponds		D1045/001/01	LI-48[LR], LI-50[LR], LI-VP-50[LS], LI-VP-51[LS]	NA
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ3146	4 records, between 07/03/1997 and 10/10/2019	Steven Davies; Mrs Shirley Williams; Mrs Norma Williams; Dr Anne Brenchley	1		Rhosllanerchrugog, Brick works	BirdTrack	D1297/025/01 , D1297/042/01 , D1297/026/01	Bern2, LBAP-C	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ3247	20 records, between 02/06/2010 and 08/08/2020	Steven Davies; Emma Broad; Heather Cartwright; Mrs Heather Cartwright; Neil Hughes; Mr James Hughes	1; 3	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; BirdTrack. Activity: H; Roving. Activity: FF. Survey: Observer data	D1297/025/01 , D1297/026/01 , D0062/008/01 , D1297/039/01	Bern2, LBAP-C	PC, NA
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ307459 (Approximate)	2 records, between 24/11/2015 and 28/01/2022	Kate Wilson; Karl Martin	2 Full-Grown; Present Full- Grown		Aberderfyn		D1531/001/01	Bern2, LBAP-C	UA, PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ3246	3 records, between 24/01/2009 and 08/06/2020	Anon; Mr James Hughes				Occurrence ID: NBN-GA000656- BGBW2009- 16444298- 106437699	D1852/002/01 , D1297/039/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ3046	2 records, between 24/01/2009 and 18/05/2011	Anon; Neil Hughes	1	Reported to recorder		Occurrence ID: NBN-GA000656- BGBW2009- 16442948- 106437708; Activity: ON. Survey: Observer data	D1852/002/01 , D0062/008/01	Bern2, LBAP-C	PC, NA
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ3045	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16442655- 106437593	D1852/002/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ3145	2009	Anon					D1775/001/02	Bern2, LBAP-C	NA
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ3147	27/06/2009	Jason Newton	1 Juvenile	Reported to recorder	Wrexham, Rhostyllen, S	Activity: FL. Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Phylloscopus collybita</i> (Chiffchaff / Siff- Siaff)	SJ3046	2 records, between 18/05/2011 and 11/04/2015	KA Walker; Neil Hughes	6	Reported to recorder	Johnstown	Bird Track; Activity: T. Survey: Observer data	D1297/025/01 , D0062/008/01	LBAP-C	PC, NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ3247	24 records, between 05/04/2008 and 05/09/2020	Steven Davies; Heather Cartwright; Mr James Hughes; Mrs Heather Cartwright; Neil Hughes; Jason Newton	8; 5; 6; 1; 3; 2; 4	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Singing. Survey: Observer data; Roving. Activity: FF. Survey: Observer data; Activity: S. Survey: Observer data	D1297/025/01 , D1297/039/01 , D1297/026/01 , D0062/008/01	LBAP-C	PC, NA
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ3246 (Approximate)	6 records, between 25/03/2020 and 08/06/2020	Mr James Hughes	1; 2		Sontley, pools		D1297/039/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ3146	4 records, between 01/06/2007 and 03/05/2019	Mrs Norma Williams; Neil Hughes	2; 9; 10+	Reported to recorder	Bonc-Y-Hafod	Survey: Observer data; Roving record. Survey: Observer data; Roving. Activity: T. Survey: Observer data	D1297/026/01 , D0062/008/01	LBAP-C	PC, NA
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ3045	01/04/2007	Norman Hallas	1	Reported to recorder	Ruabon, New Hall	Survey: Observer data	D0062/008/01	LBAP-C	NA
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ3147	27/06/2009	Jason Newton	2	Reported to recorder	Wrexham, Rhostyllen, S	Activity: S. Survey: Observer data	D0062/008/01	LBAP-C	NA
<i>Polypodium interjectum</i> (Intermediate Polypody / Llawredynen Ganolig)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	LI-51[LS]	NA
<i>Populus nigra</i> subsp. <i>betulifolia</i> (Black-poplar)	SJ3068546582	1994	Trefor Thompson & Les Starling	3 Male	Field record	Johnstown	Hedges (1 is now a stump)	D0225/001/01	GBNNSIP, LBAP-C, LBAP-D, LBAP-F, LBAP-S, LBAP-W, LI-48[LS], LI-50[LS], LI-52[LR]	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Potamogeton berchtoldii</i> (Small Pondweed / Dyfrllys Bach)	SJ3046 (Supplied by Original Recorder (Checked))	24/06/2002 to 27/06/2002	Nick Stewart			SSSI: Stryt Las a'r Hafod; West of Hafod House		D0026/030/01	LBAP-G, LI-48[LS], LI-49[LS], LI-51[LS], LI-VP-51[LS]	PC
<i>Potamogeton berchtoldii</i> (Small Pondweed / Dyfrllys Bach)	SJ3085747011 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH21 - Hafod		D1045/001/01	LBAP-G, LI-48[LS], LI-49[LS], LI-51[LS], LI-VP-51[LS]	NA
<i>Pyrrhosoma nymphula</i> (Large Red Damselfly / Mursen Fawr Goch)	SJ3247	2 records, both on 22/05/1977	J.M. Brummitt	Present adult; 1 present		Hafod Wood, Erddig		D1295/001/04 , D0217/001/04	LBAP-S	NA
<i>Ranunculus lingua</i> (Greater Spearwort / Llafnlys Mawr)	SJ3247	21/07/2005	Lawton Roberts, J.			Plas Grono	SJ321465 approx. Middle Sontley fish-pools	D1169/004/02	LI-48[LR], LI-50[LS], LI-51[LR], LI-VP-50[LS], LI-VP-51[LS]	NA
<i>Ranunculus sceleratus</i> (Celery-leaved Buttercup / Crafnanc yr Eryr)	SJ3117046486 (GPS Reading)	06/08/2003 to 03/09/2003	Jan Wilkinson	Present		Pond SLH16 - Hafod		D1045/001/01	LI-48[LS]	NA
<i>Ranunculus trichophyllus</i> (Thread-leaved Water-crowfoot / Crafnanc-y-Frân Feinddail)	SJ3046 (Supplied by Original Recorder (Checked))	24/06/2002 to 27/06/2002	Nick Stewart			SSSI: Stryt Las a'r Hafod; West of Hafod House		D0026/030/01	LBAP-G, LI-48[LR], LI-49[LS], LI-50[LS], LI-52[LS], LI-VP-50[LS], LI-VP-51[LS]	NA
<i>Reseda luteola</i> (Weld / Melengu)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	GBNNSIP, LI-48[LS]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Scapania scandica</i> (Norwegian Earwort)	SJ3045	07/04/2008	British Bryological Society Meeting			-Withheld-	-Withheld-	D1075/001/06	LI-51[LR]	NA
<i>Scrophularia auriculata</i> (Water Figwort / Gwrnerth y Dwr)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 1	D1531/001/01	LI-48[LR], LI-52[LS]	PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ3247	13 records, between 25/11/2007 and 08/08/2020	Steven Davies; Heather Cartwright; Mrs Heather Cartwright; Neil Hughes; Jason Newton	1; 2	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Roving record. Survey: Observer data; Survey: Observer data; Activity: H. Survey: Observer data	D1297/025/01 , D1297/039/01 , D1297/026/01 , D0062/008/01	Bern2, LBAP-C	PC, NA
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ3046	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16443121-106817346	D1852/002/01	Bern2, LBAP-C	PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ3247	25/12/2007	Neil Hughes	12	Reported to recorder	Wrexham, Erddig, Hafod Wood	Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ3247	13 records, between 27/06/2009 and 08/08/2020	Heather Cartwright; Mrs Heather Cartwright; Mr James Hughes; Jason Newton	3; 2; 1; 6	Reported to recorder	Wrexham, Erddig, Hafod Wood	BirdTrack; Activity: S; Activity: S. Survey: Observer data	D1297/025/01 , D1297/039/01 , D0062/008/01	LBAP-C	PC, NA
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ3246 (Approximate)	27/04/2020	Mr James Hughes	1		Sontley, pools		D1297/039/01	LBAP-C	PC
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ3146	2 records, between 14/04/2010 and 03/05/2019	Mrs Norma Williams; Neil Hughes	5 Male	Reported to recorder	Bonc-Y-Hafod	Roving. Activity: S. Survey: Observer data	D1297/026/01 , D0062/008/01	LBAP-C	PC, NA
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ3046	18/05/2011	Neil Hughes	5 Male	Reported to recorder	Johnstown	Activity: T. Survey: Observer data	D0062/008/01	LBAP-C	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Tragopogon pratensis</i> (Goat's-beard / Barf y Bwch)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 1,2	D1531/001/01	GBNNSIP, LI-48[LS]	PC
<i>Tripleurospermum inodorum</i> (Scentless Mayweed / Amranwen Ddi-Sawr)	SJ3046	12/10/2015	Stead, M.O.			Johnstown		D1169/004/02	GBNNSIP, LI-48[LS]	NA
<i>Tripleurospermum inodorum</i> (Scentless Mayweed / Amranwen Ddi-Sawr)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 2	D1531/001/01	GBNNSIP, LI-48[LS]	PC
<i>Viburnum opulus</i> (Guelder-rose / Gwifwrnwydden y Gors)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 2	D1531/001/01	LI-52[LS]	PC

Designation List - INNS										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3247 (Approximate)	3 records, between 16/04/2020 and 27/04/2020	Mrs Heather Cartwright; Mr James Hughes	2; 6		Sontley lodge farm		D1297/039/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC
<i>Branta canadensis</i> (Canada Goose / Gwydd Canada)	SJ3246 (Approximate)	9 records, between 12/06/2005 and 25/07/2020	Mr James Hughes; John Rushton	25; 13; 42; 17; 6; 10; 36; 18; 5	Reported to recorder	Sontley, pools	Survey: Observer data	D1297/039/01 , D0062/008/01	BDir2.1, Bonn2, GBNNSIP, INNS, WCA9	PC, NA
<i>Cotoneaster horizontalis</i> (Wall Cotoneaster / Cotoneaster Asgwrn Pysgodyn)	SJ307459 (Approximate)	Summer 2011	Joe Phillips	Present		Aberderfyn	Found in field 1,2	D1531/001/01	GBNNSIP, INNS, WCA9	PC
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ3093546415 (Selected from Interactive Map)	5 records, between 13/04/2010 and 13/05/2015	Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Simon Cope; Nicola Wheeler; Simon Cope	N/A	Not Applicable	Hafod R1: Pond 03 (former site)	Recorded during newt survey.	D1320/014/01	GBNNSIP, INNS, WCA9	PC
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ3096546415 (Selected from Interactive Map)	5 records, between 13/04/2010 and 13/05/2015	Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Simon Cope; Nicola Wheeler; Simon Cope	N/A	Not Applicable	Hafod R1: Pond 01	Recorded during newt survey.	D1320/014/01	GBNNSIP, INNS, WCA9	PC
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ3094546365 (Selected from Interactive Map)	2 records, between 08/04/2015 and 10/04/2018	Matthew Ellis; Nicola Wheeler; Simon Cope	3 DAFOR; N/A	Not Applicable	Hafod R1: Pond 02a (former site)	Recorded during newt survey.	D1320/014/01	GBNNSIP, INNS, WCA9	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ308463	01/12/2007	K Jones			Stryt Las a'r Hafod SSSI	Hafod R1. In ponds SLH 10, 9, 7 and 2, brought in with introduced fish. C. 10% coverage but expanding esp. In pond 2, some response to management works observed.	D1286/001/02	GBNNSIP, INNS, WCA9	PC
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ308462 (Estimated Centroid of Site))	15/05/2007	Anon			SSSI: Stryt Las a'r Hafod; Hafod R1 Mitigation Site	Torch survey of 11 ponds	D1314/006/01	GBNNSIP, INNS, WCA9	PC
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ3081546335 (Selected from Interactive Map)	5 records, between 13/04/2010 and 13/05/2015	Matthew Ellis; Nicola Wheeler; Paul Day; Simon Cope; Simon Cope; Nicola Wheeler; Simon Cope	N/A	Not Applicable	Hafod R1: Pond 07 (former site)	Recorded during newt survey.	D1320/014/01	GBNNSIP, INNS, WCA9	PC
<i>Crassula helmsii</i> (New Zealand Pigmyweed / Corchwyn Seland Newydd)	SJ3078846181 (Selected from Interactive Map)	04/09/2018	Paul Furnborough	Present		Aberderfyn: SLH12b		D1531/003/01	GBNNSIP, INNS, WCA9	PC
<i>Fallopia japonica</i> (Japanese Knotweed / Clymog Japan)	SJ307463	01/06/2009	K Jones			Aberderfyn, Stryt Las a'r Hafod SSSI	Small patch appeared with no previous records. Treated by contractor with Glyphosate.	D1286/001/02	GBNNSIP, INNS, WCA9	PC
<i>Heracleum mantegazzianum</i> (Giant Hogweed / Efwr Enfawr)	SJ3119446239	13/07/2017	Philip Pearce			Adjacent to Dennis Ruabon in Ruabon	The plant head was removed	D1586/014/01	GBNNSIP, INNS, WCA9	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lagarosiphon major</i> (Curly Waterweed / Ffugalaw Crych)	SJ3046 (Supplied by Original Recorder (Checked))	24/06/2002 to 27/06/2002	Nick Stewart			SSSI: Stryt Las a'r Hafod; West of Hafod House		D0026/030/01	GBNNSIP, INNS, WCA9	NA
<i>Lamiastrum galeobdolon</i> subsp. <i>argentatum</i> (Variegated Yellow Archangel)	SJ3245	10/11/2014	Shanklin, J.			Gyfelia		D1169/004/02	GBNNSIP, INNS, WCA9	NA
<i>Neovison vison</i> (American Mink / Minc)	SJ310461	25/09/2007	Kylie Jones	1		Hafod mitigation site	Large male mink chasing rabbit at 14.30	D1117/001/01	GBNNSIP, INNS, WCA9	PC
<i>Neovison vison</i> (American Mink / Minc)	SJ3047	08/07/2015	J.A. Jackson	1		Pentre Bychan, Johnstown	In stream	D0967/009/01	GBNNSIP, INNS, WCA9	UA
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ3045	29/09/2014	Shanklin, J.			Johnstown		D1169/004/02	GBNNSIP, INNS	NA
<i>Sedum album</i> (White Stonecrop / Briweg Wen)	SJ3046	12/10/2015	Stead, M.O.			Johnstown		D1169/004/02	GBNNSIP, INNS	NA

Sites - 8 records	
Sites of Special Scientific Interest intersecting 1000m buffer	Stryt Las a'r Hafod (1376) (143m)
Special Areas of Conservation intersecting 1000m buffer	Johnstown Newt Sites (UK0030173) (143m)
Wildlife Sites intersecting 1000m buffer	Erddig Estate (Wrexham W317) (844m)
Scheduled Ancient Monuments intersecting 1000m buffer	Wat's Dyke: Section extending from Middle Sontley to Black Brook Bridge (DE153) (865m)
Listed Buildings intersecting 1000m buffer	Hafod House (1588) (279m), Hafod House Farmhouse (1589) (265m)
Country Parks intersecting 1000m buffer	Bonc yr Hafod (144m)
Important Invertebrate Areas intersecting 1000m buffer	North East Wales (143m)

Sites of Special Scientific Interest		
Site Code	Site Name	Link
1376	Stryt Las a'r Hafod	More Information

Special Areas of Conservation		
Site Code	Site Name	Link
UK0030173	Johnstown Newt Sites	More Information

Wildlife Sites		
Site Code	Site Name	Link
Wrexham W317	Erddig Estate	More Information

Scheduled Ancient Monuments					
Site Code	Site Name	Class	Period	Site Type	Link
DE153	Wat's Dyke: Section extending from Middle Sontley to Black Brook Bridge	Monument	Early Medieval	Linear earthwork	More Information

Listed Buildings				
Site Code	Site Name	Grade	Classification	Link
1588	Hafod House	II	Health and Welfare	More Information
1589	Hafod House Farmhouse	II	Domestic	More Information

Important Invertebrate Areas

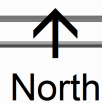
Site Code	Site Name	Link
	North East Wales	More Information

- PUBLIC VERSION -

Ancient Woodland				
Habitat	Distance	Area	Coverage	At Search Location
Restored Ancient Woodland Site	840m	1.324ha	0.422%	No

Phase 1				
Habitat	Distance	Area	Coverage	At Search Location
B.4 - Improved Grassland	0m - 906m	184.063ha	58.613%	Yes
I.2.2 - Spoil	222m - 694m	37.565ha	11.962%	No
J.3.6 - Buildings	142m - 999m	28.084ha	8.943%	No
I.2.1 - Quarry	614m	10.009ha	3.187%	No
J.1.1 - Arable Land	242m - 900m	7.729ha	2.461%	No
J.1.3 - Ephemeral/Short Perennial	433m - 832m	6.741ha	2.147%	No
A.1.1.1 - Semi-natural Broad-leaved Woodland	331m - 846m	5.046ha	1.607%	No
B.2.2 - Semi-improved Neutral Grassland	354m - 995m	3.588ha	1.143%	No
J.4 - Bare Ground	278m - 798m	2.918ha	0.929%	No
A.2.1 - Dense/Continuous Scrub	459m - 807m	1.916ha	0.61%	No
G.1 - Standing Water	286m - 997m	1.429ha	0.455%	No
J.1.2 - Amenity Grassland	274m	0.526ha	0.168%	No
N/A	492m - 747m	0.226ha	0.072%	No

Documents - spatially referenced documents found within the search area					
Document Type	Distance	Document ID	Title	Description	Grid Reference
Consultancy Survey Report	356m	CO/DOC 00514	COPE, S., 2019: "Hafod Quarry and Landfill Great Crested Newt Monitoring Report". Oakwood Ecology	GCN monitoring of ponds in the quarry/landfill site. For management purposes the site is divided into three units (Hafod R1, Hafod R2 and Hafod Lagoons). Hafod R1 and R2 are part of the Johnstown Newt Sites SAC	



- Broad-leaved plantation woodland
- Individual broad-leaved tree
Locations are indicative only.
- Dense/ continuous scrub
- Scattered scrub
- Hedgerow
- Tall ruderal
- Standing water
- Dry ditch
- A Amenity grassland
- Improved grassland
- Arable
- Hard-standing/ bare ground
- Wall
- Fence
- Animal path
- Target Note

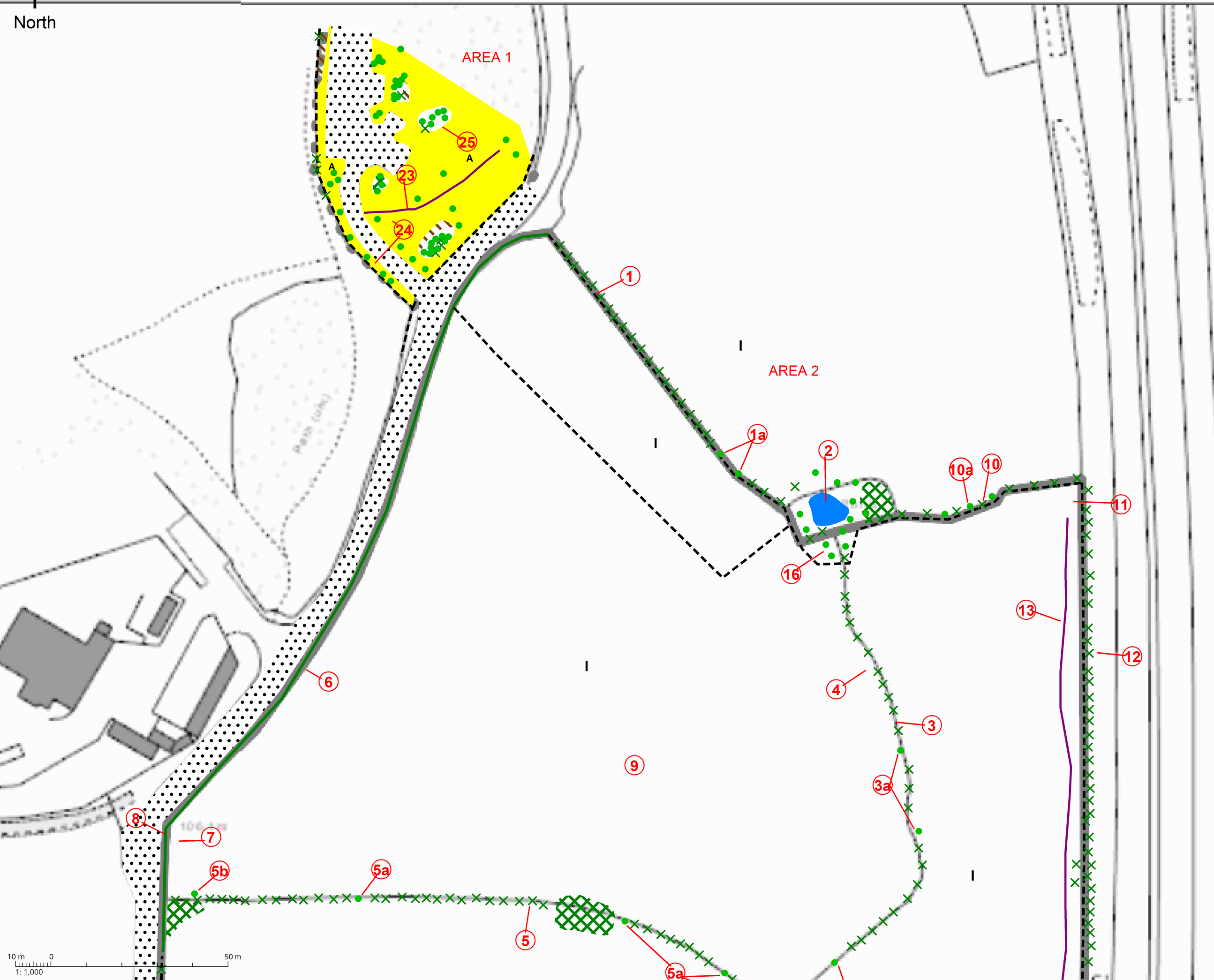
C500 Proposed Commemorative Woodland and Associated Infrastructure on Land off Hafod Road, Johnstown, Wrexham - Preliminary Ecological Appraisal

Figure 1 - Extended Phase 1 Habitat Survey; SHEET 1 OF 2

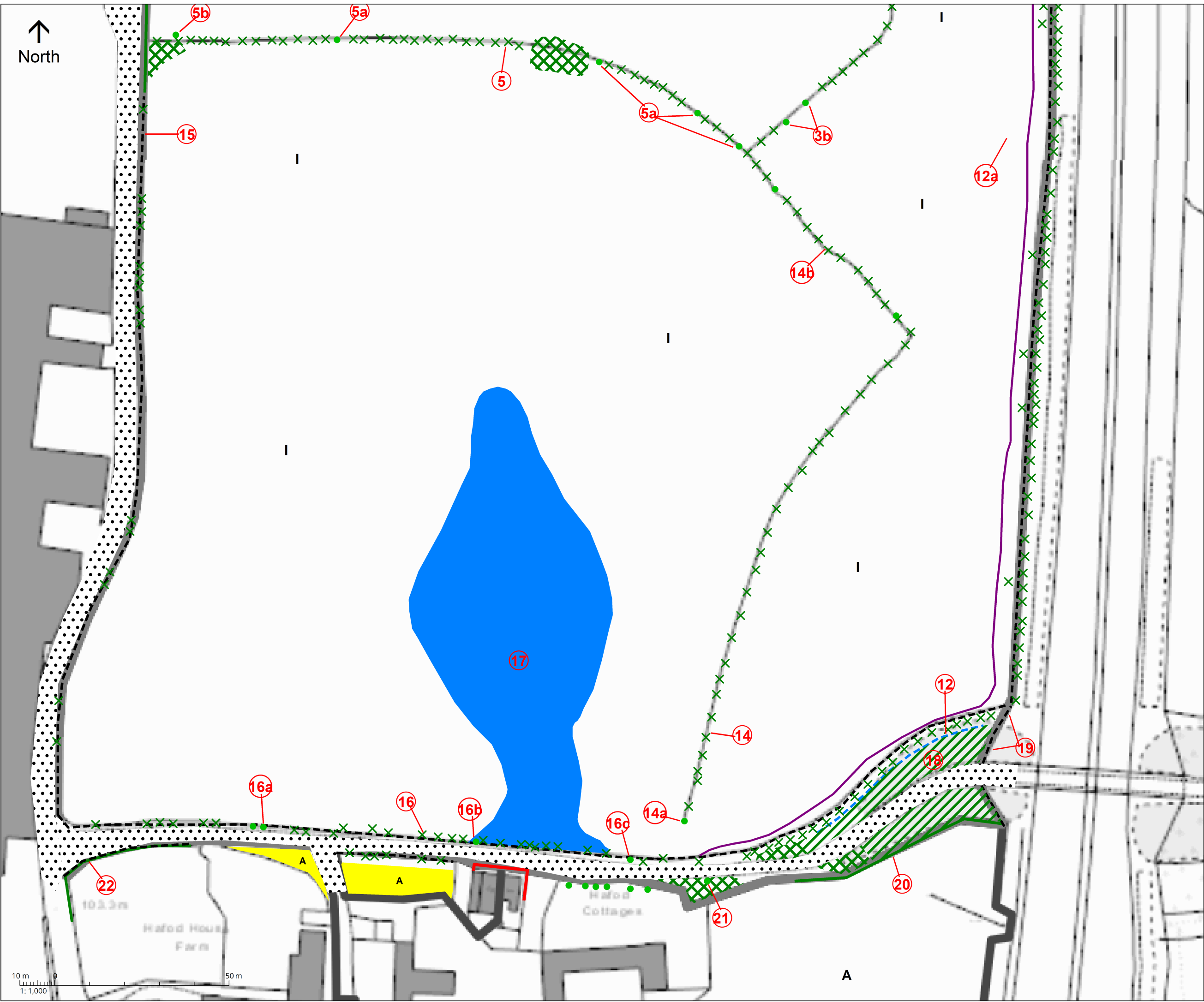
Date: 01/12/2022

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Base mapping provided by the client.



-  Broad-leaved plantation woodland
-  Individual broad-leaved tree
Locations are indicative only.
-  Dense/ continuous scrub
-  Scattered scrub
-  Hedgerow
-  Tall ruderal
-  Standing water
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-  Hard-standing/ bare ground
-  Wall
-  Fence
-  Animal path
-  Target Note

C500 Proposed Commemorative Woodland and Associated Infrastructure on Land off Hafod Road, Johnstown, Wrexham - Preliminary Ecological Appraisal

Figure 1 - Extended Phase 1 Habitat Survey; SHEET 2 OF 2

Date: 01/12/2022

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