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Author	Max Ellson
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**Unit 23, The Malthouse Business Centre,
Regent Street, Llangollen, Denbighshire, LL20 8HS
01978 860889**

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Quality Assurance

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This report has been prepared by Marches Ecology with all reasonable skill, care and diligence within the terms of the Contract with the client.

The terms of this Contract have been fulfilled by Marches Ecology in accordance with the Chartered Institute of Ecology and Environmental Management's Code of Professional Conduct.

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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 J R.J & G.E Newbrook & Son to undertake a Preliminary Ecological Appraisal of land at Cefn Uchaf Farm, Nantyr, Glyn Ceiriog, Llangollen, Wrexham, LL20 7DF (approximate OS Grid Ref. SJ 1920 3834). 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 a proposed slurry lagoon (and associated access rack). This report is provided as supporting information to a planning application to Wrexham County Borough Council (WCBC).

1.1.2 The 'survey site' defined for this Appraisal includes the 'proposed development site' and a larger area of land ('wider survey site') which equates to an approximate 30 m buffer. Both areas are shown on *Figure 1*. The Baseline Ecological Conditions (*Section 3*) covers the results for the entire survey site in order to provide additional contextual information. The Evaluation, Assessment and Recommendations (*Section 4*) considers the proposed development site and immediately surrounding area. The wider survey site is only considered in *Section 4* where relevant due to potential indirect impacts and or for mitigation/enhancement.

1.1.3 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 ecological enhancements proposed in *Section 4* of this report seek to achieve net benefit for biodiversity (NBB) in accordance with current national planning policy.

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 Max Ellson of Marches Ecology. Max Ellson is an ecologist with over twenty 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).
- MSc Vegetation Survey and Assessment.
- BSc (Hons) Environmental Biology.

1.3 Site Description and Context

- 1.3.1 The survey site extends to approximately 1.4 hectares and is shown on *Figure 1*. It is dominated by parts of two agriculturally improved grassland fields (flat or gently sloping) to the south of the Cefn Uchaf Farm homestead/ associated agricultural buildings. There is also a small stand of broad-leaved plantation woodland on an area of disturbed/ apparently manmade ground, which is subdivided by farm trackways and a parking/ turning area. Part of a minor road is located within the survey site, which is bounded by various hedgerow/ fence lengths. A small stream passes through the survey site, its route largely being piped. The survey site is largely unmarked by boundary features, although field edges and the plantation woodland are at least partly defined by fences.
- 1.3.2 Cefn Uchaf Farm is located within a rural/ agricultural landscape approximately 1.2 km northwest of Glyn Ceiriog. It is largely a dairy farm, with some Sheep. It is located on (largely south facing) sloping ground, which leads up to open moorland to the north. Much of the land in the immediate locality of the survey site comprises improved grassland fields with hedgerows or fenced boundaries. Further afield there are frequent semi-natural habitats in the landscape including woodlands, scrub, hedgerows, un- and semi-improved grassland, and streams.

1.4 The Proposal

- 1.4.1 Cefn Uchaf Farm is a dairy business, consisting of 100 cows and followers/ young stock. It produces approximately 292 m³ of slurry per month. To comply with new Nitrate Vulnerable Zone (NVZ) rules associated with *The Water Resources (Control of Agricultural Pollution) (Wales) Regulations 2021* the farm is required to have the capacity to store at least five months of slurry production. It has been determined that creating an earth banked lagoon, lined with clay (a 'slurry lagoon') is the only option available to Cefn Uchaf Farm to create this storage capacity.
- 1.4.2 The existing site and the proposal are illustrated on an IAGO Cymru Ltd plan, drawing no. 1023/37_PA/03, dated 12.10.2023 (revised 05.02.2024) entitled '*Site Location and Block Plan*'. The Block Plan indicates the boundary of the lagoon footprint ('*extent of engineering operation*') with a broken redline, this equating to an area of 1899 m². The lagoon itself will be approximately 42 m x 21 m, with 4.5 m wide margins to a safety fence. It will be uncovered.
- 1.4.3 The construction process will involve removing topsoil and stockpiling it on the edge of the site, followed by excavation of a pit (to approximately 800 mm deeper than the finished dimensions) and the addition of a clay layer of 800 mm to the floor and sides to ensure a safe watertight seal. No earth/ spoil will be removed off site, rather any the stored topsoil material will be used to feather the sides of the lagoon, which will be subsequently seeded back to pasture.
- 1.4.4 To the north of the lagoon there will be a stoned turning area, with a 3 m wide/ stoned access track (both for construction and operational purposes) leading to an existing farm access track (via a new gateway) to the northwest. This will enable direct access to/ from the existing dairy sheds.
- 1.4.5 No further detail with regards the proposal have 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). Edition 12 of PPW is overdue and imminent. In a letter¹ dated 11th October 2023 along with an associated Annex² the Minister for Climate Change outlined some proposed changes to be included in Edition 12. The main changes are of particular relevance for this PEA and include the areas of 'Green Infrastructure', 'Net Benefit for Biodiversity', 'Protection for SSSIs' and 'Trees and Woodlands'.

- 1.5.3 Chapter 6 (of Edition 11) 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*

¹ Letter to Heads of Planning from Julie James, Minister for Climate Change, dated 11 October 2023. Ref. MA/JJ/2512/23.

² Annex to Heads of Planning Letter Dated 11 October 2023: Addressing the Nature Emergency through the Planning System: Updated National Planning Policy for Chapter 6 of Planning Policy Wales.

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’.

- 1.5.4 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

- 1.5.5 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.

- 1.5.6 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 2.2.1³);*
- 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);*
- 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*

³ References to the relevant part of PPW.

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

- 1.5.7 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 Local Development Plan

- 1.5.8 The Wrexham Local Development Plan (LDP) was adopted on 20th December 2023. The LDP '*...sets out the planning requirements for achieving sustainable development in Wrexham County Borough over the period 2013-2028*'. Relevant ecology-related policies are listed here.

The strategic policies include:

- *Policy SP2. Location of Development.*
- *Policy SP5. Planning Obligations.* This includes ecological mitigation.
- *Policy SP12. Design Principles and Masterplanning Framework.*
- *Policy SP14. Natural Environment. Development will only be permitted where it seeks to protect, conserve and enhance the natural environment including:*
 - *Special Areas of Conservation, Special Protection Areas, and Ramsar Sites;*
 - *Sites of Special Scientific Interest and National Nature Reserves;*
 - *Protected Species and their habitat;*
 - *The Clwydian Range and Dee Valley Area of Outstanding Natural Beauty*
 - *Local Wildlife Sites;*
 - *Local Nature Reserves;*
 - *Special Landscape Areas;*
 - *Natural landscape features and Green Infrastructure such as trees, hedges and woodland which contribute to the quality and diversity of the natural environment and play an important role in mitigating the impact of climate change;*
 - *The quality of natural services including water, soundscape, air and soils; and*
 - *Habitats and species of principal importance to Wales.*
- *Policy SP18. Climate Change.* Includes maintaining ecological resilience.
- *Policy SP19. Green Infrastructure. Development will be required to maintain the extent, quality and connectivity of multifunctional green infrastructure on or near a site, and, where appropriate to enhance it.*

Section 4 of the LDP includes a sub-section on the 'Natural Environment'. The relevant policies listed include:

- *Policy NE1. International and National Nature Conservation Designations.*
- *Policy NE2. Local Designations for Nature Conservation and Geological Importance. Development which adversely affects the nature conservation and/or geological*

importance of locally designated sites, habitats and species will only be permitted in exceptional circumstances where it can be demonstrated that:

- *There is no satisfactory alternative location for the development which avoids nature conservation impacts; and*
- *Compensation measures are designed to ensure that there is no reduction in the overall nature or geological conservation value of the site.*
- *Policy NE3. Trees, Woodlands and Hedgerows. Development will only be permitted where it does not cause unacceptable harm to trees, woodlands and hedgerows of significant public amenity, natural or cultural heritage value or those that provide important ecosystem services.*
- *Policy NE6. Wastewater Treatment and River Water Quality. All new development will only be permitted where there is no adverse effect on the integrity of the River Dee and Bala Lake SAC in particular through the treatment of waste water.*

Section 4 also has a sub-section on 'General Development Management Considerations'. The relevant policies listed include:

- *Policy DM1. Development Management Considerations.* This includes safeguarding the environment from the adverse effects of pollution of water, land, noise, light or air, and not increasing the risk of flooding/ impacts on the water environment.

Local Planning Guidance

- 1.5.9 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.
- LPG 32 Biodiversity and Development. Adopted March 2011. Of particular importance it details the requirements for ecological survey and reporting.

1.6 Legislation

Introduction

- 1.6.1 This sub-section provides a brief summary of key legislation relevant to ecology/ nature conservation and the 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*.

***The Conservation of Habitats and Species Regulations 2017 (The Regulations)*⁴**

- 1.6.2 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

⁴ Amended in line with EU Exit by *The Conservation of Habitats and Species (Amendment) (EU Exit) Regulations 2019*.

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 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)

- 1.6.3 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)

- 1.6.4 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)

- 1.6.5 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

- 1.6.6 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)

- 1.6.7 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 (North Wales Environmental Information Service). Information sought included protected (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 02nd February 2024 by Max Ellson of Marches Ecology. The Extended Phase 1 Habitat plan is provided as *Figure 1*. The survey focussed on the proposed development site and immediately adjacent land (comprising an approximately 30 m buffer); the ‘proposed development site, and ‘wider survey site’ are shown on *Figure 1*. Immediately adjacent habitat was considered where deemed appropriate and viewed from the survey site boundary where possible. The weather during the survey was initially 100% grey cloud, mild, dry and windy, with clear sky soon developing.

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). February is outside the accepted survey period for Extended Phase 1 Habitat Surveys. However, 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 (*Meles meles*). 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 (*Triturus cristatus*). 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:

- Some parts of the survey site are characterised by dense hedgerow/ scrub vegetation which may have obscured evidence of use of the survey site by protected/ notable species.
- The site is a working farm, with vegetation within the survey site being subject to both heavy grazing, and disturbance from agricultural activities including machinery storage and movements. Evidence of the impact of such activities on vegetation (trampling, stock paths, grazing, muck spreading, *etc.*) is present throughout the survey site. Disturbance/ grazing of vegetation can be problematic for identifying specific habitat types. Such activities can also result in signs of protected species (e.g. footprints, paths *etc.*) being less obvious and/ or lost.

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 three statutory protected sites within the 1 km search area: Berwyn a Mynyddoedd de Clwyd ~ Berwyn and South Clwyd Mountains Special Area of Conservation (SAC)/ Berwyn Special Protection Area (SPA)/ Berwyn Site of Special Scientific Interest (SSSI). The boundaries of the closest part of these three sites are concurrent, this being approximately 525 m to the north of the proposed development site.
- 3.1.2 Annex I habitats which are given as a primary reason for selection of the SAC are: European dry heaths, Blanket bogs. The citation notes that '*Berwyn contains the largest stands of upland European dry heath....and supports the most extensive tract of near-natural blanket bog....in Wales*'. Annex I habitats which are listed as a qualifying feature (but not a primary reason for selection of the site) are: Semi-natural grasslands and scrubland facies or calcareous substrate, Transition mires and quaking bogs, Calcareous and calcschist screes of the montane to alpine levels, and Calcareous rocky slopes with chamasophytic vegetation. No Annex II species are listed.
- 3.1.3 The SPA citation lists species referred to in Article 4 of Directive 2009/147/EC and listed in Annex II of Directive 92/43/EEC, as: Hen Harrier (*Circus cyaneus*), Merlin (*Falco columbarius*), Peregrine (*Falco peregrinus*), and Red Kite (*Milvus milvus*).
- 3.1.4 The SSSI citation notes '*The Berwyn is of national and international importance for its moorland breeding birds and vegetation, particularly Calluna dominated heath and blanket mire. It is also notified to conserve a colony of the rare Welsh clearwing moth.*'

Non-statutory

- 3.1.5 There are six non-statutory protected sites within the 1 km search area, as follows:
- Cefn Uchaf Wildlife Site (W103). Approximately 45 m to the northeast of the proposed development site at the closest point. The information provided with the Cofnod report (via Safleol⁵) describes it as follows: '*A small stream valley with unfenced broad-leaved woodland There is a small, steep, south facing, semi-improved [neutral] grassland.....[which is] herb rich [with] scrub*'.
 - Coed Pistyll y Garth Wildlife Site (W250). This is located approximately 515 m to the northeast of the proposed development site. No additional information has been supplied.
 - Coed Nant Lafar Wildlife Site (W106). This is located approximately 540 m to the south/southeast. Safleol outlines it supports semi-improved neutral grassland and semi-natural broad-leaved woodland along the Nant Lafar.
 - Glyn Ceiriog Slate Mine Wildlife Site (W243). Located approximately 540 m to the southeast. Described as a '*disused slate mine with broad-leaved plantation dominated by sessile oak on a south facing slope*'.

⁵ A Local Sites System for Wales

- Nant Y Dramwys Wildlife Site (W102). This is located approximately 600 m to the west. Described as follows: '*Hillside stream valley, grazed by sheep, with broadleaved woodland, acid grassland, scrub and bracken.*'
 - Nant Aber Las Wildlife Site (W104). Located approximately 845 m to the southwest. No additional information has been supplied.
- 3.1.6 Several records of Areas of Ancient Semi-natural Woodland (ASNW) and other associated categorisations (such as Plantation on Ancient Woodland Site – PAWS, and Restored Ancient Woodland Site – RAWS) were provided by Cofnod, the nearest being a block of PAWS located approximately 480 m south of the proposed development site at its closest point.

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, 2 and 6b for the proposed development site, 1, 2, 3, 3a, 5, 5a, 6, 6a, 6c and 8 for the wider survey site, and 3b, 4, 7 and 9 for immediately adjacent land) are provided in *Section 5* and shown on *Figure 1*.

Proposed Development Site

Grassland

- 3.2.2 The proposed development site is located within two agriculturally improved grassland fields (*Target Notes 1* and *2*). At *Target Note 1* the proposed development site comprises the north-eastern corner of a larger field. It is understood that silage crops are taken from this field. The sward is to approximately 0.05 m in height, and appears to have been frequently driven over; it has also been subject to muck spraying in the recent past. The sward is grass dominated, largely *Lolium perenne* (Perennial Rye-grass) with lesser amounts of *Poa annua* (Annual Meadow-grass), *Agrostis* spp. (Bent species) and *Dactylis glomerata* (Cock's-foot); the latter largely associated with the field edges. With the exception of abundant *Cerastium fontanum* (Common Mouse-ear), (tall-)herbs and forbs are infrequent.



The proposed development site at *Target Note 1*. Above: photo taken from approximately north-western end of proposed slurry lagoon. Below: photo taken looking towards southern end. Traffic cones indicate the approximate alignment of the slurry lagoon itself.



- 3.2.3 At *Target Note 2* the proposed development site crosses the western corner of a larger field. It is Sheep grazed (locally heavily/ puddled). The sward is to approximately 0.10 m in height and is dominated by grasses, largely Bent species and Perennial Rye-grass, with lesser amounts of Cock's-foot. (Tall-)herbs and forbs are scattered throughout at various levels of

abundance, including frequent/ locally abundant *Urtica dioica* (Common Nettle) and frequent Broad-leaved Dock.



The proposed development site at *Target Note 2*. Photo taken looking north-westwards. The proposed access track will enter/ exit the field to the immediate LHS of the existing field gate, where it will join an existing track.

Other Habitats

- 3.2.4 At *Target Note 6b* there are numerous stored tyres on the edge of plantation woodland (*Target Note 6*). Occasional boundaries are fenced.

Wider Survey Site

Plantation, Hedgerows & Trees

- 3.2.5 *Target Note 6* comprises three adjacent small blocks of broad-leaved plantation woodland associated with a trackway and parking/ turning area. The ground is apparently manmade and is locally steeply sloping. The canopy trees range from young, through semi-mature to mature, and include *Aesculus hippocastanum* (Horse-chestnut), *Fagus sylvatica* (Beech), *Fraxinus excelsior* (Ash), *Larix* sp. (a Larch species), *Pinus sylvestris* (Scot's Pine), *Betula pendula* (Silver Birch), *Sorbus aucuparia* (Rowan) and *Salix* sp. (a Willow species), with an occasional *Sambucus nigra* (Elder) shrub, or very locally dense *Prunus spinosa* (Blackthorn). The base layer is larger species-poor and disturbed, frequently bare or characterised by locally frequent low-growing *Rubus fruticosus* agg. (Bramble), with a range of common associates.



Plantation woodland at Target Note 6. Photo taken looking towards Target Note 6b to rear of photo.

- 3.2.6 Within the wider survey site, hedgerow lengths (intact or defunct) are largely concentrated along the edges of a minor road (*Target Notes 5 and 6a*). The hedge lengths at *Target Note 5* often continue outside the wider survey site. Woody species recorded include *Corylus avellana* (Hazel), *Crataegus monogyna* (Hawthorn), Blackthorn, *Rosa canina* agg. (Dog-rose) and Elder. At *Target Note 6a* a defunct, gappy hedge forms the roadside boundary of the plantation woodland.
- 3.2.7 At *Target Note 3* there a short length of defunct, unfenced, hedgeline continues outside of the wider survey site. This comprises scattered mature bushes of a Willow species, Elder, Blackthorn, Hazel, and Hawthorn. The base is open and appears grass dominated and or bare. At *Target Note 3a* a previous alignment of this hedge line now comprises stumps only along a slight bank/ slope, having, it is understood, been decimated in a storm.
- 3.2.8 A single individual mature tree is located within the wider survey site, this being a mature *Betula cf. pubescens* (Downy Birch) at *Target Note 5a*, associated with a hedgerow.
- 3.2.9 Where considered relevant trees are discussed further below with regards bats.

Grassland

- 3.2.10 The agriculturally improved fields at *Target Notes 1 and 2* continue into the wider survey site. There is also the very edge of an improved grassland field located to the west of the roadside hedges at *Target Note 5*. At *Target Note 6c* there is a very small stand of species-poor grassland adjacent to an existing gateway.

Other Habitats

- 3.2.11 Other habitats within the survey site are restricted to a very short length of watercourse (*Target Note 8*), hard-standing/ bare ground, and fences. At *Target Note 8* a small stream enters the field from under the adjacent road and shortly enters a pipe, reappearing at *Target Note 9*.



Short section of water course (dashed blue-line) at *Target Note 8*.

Immediately Adjacent Land

- 3.2.12 Habitats/ features noted on immediately adjacent land:
- Two mature Ash trees at *Target Notes 3b* and *4*;
 - A covered strawbale store (*Target Note 7*);
 - A short length of stream (*Target Note 9*); and
 - The western edge of Cefn Uchaf Wildlife Site at *Target Note 10*.

Flora

- 3.2.13 No notable plants were recorded during the survey (for example 'Locally Rare'/'Locally Scarce' or 'Locally Near Scarce' in Williams (2021), listed as above 'Least Concern' in Dines (2008). No plants listed in *Schedule 9* of the *Wildlife and Countryside Act 1981* were recorded during the survey.
- 3.2.14 None of the plant records provided by Cofnod are from within the proposed development/ wider survey site or immediately adjacent habitat. There are no particular notable records within the 1 km search area which may be of relevance (with either suitable habitat present in the proposed development/ wider survey site or on immediately adjacent land).

3.2.15 Records of four species of plant listed in *Schedule 9* of the *Wildlife and Countryside Act 1981* have been provided by Cofnod for the 1 km search area: a 2014 record for *Reynoutria japonica* (Japanese Knotweed), 2015 records for *Crocasmia x crocosmiiflora* (Montbretia) and *Cotoneaster horizontalis* (Wall Cotoneaster), and a 2021 record for Himalayan Balsam (*Impatiens glandulifera*). All these records are from adjacent 1 km grid squares to which the proposed development/ wider survey sites are located.

3.2.16 Cofnod also supplied a small number of lower plant (bryophytes) records, none of which are from the proposed development/ wider survey sites, or immediately adjacent habitat.

3.3 Species/ Species Groups

Badgers

3.3.1 Cofnod provided two Badger records from the 1 km search area. Both are for setts, with the closest being from approximately 720 m from the proposed development site. Further details will not be provided here as they are contained within the Confidential Cofnod report.

3.3.2 No setts or evidence of Badger was recorded during the Extended Phase 1 Habitat Survey. There are no perceived sett excavation opportunities within the proposed development site, and only negligible opportunities within the wider survey site (largely limited to hedge bases or the plantation woodland at *Target Note 6*, noting however that these resources appear frequently disturbed). Habitat of significantly greater potential for sett construction is located to the northeast of the survey site, associated with Cefn Uchaf Wildlife Site (*Target Note 10*).

3.3.3 The grassland resources within the proposed development/ wider survey sites provide habitat of moderate-high potential value for Badger foraging.

Bats

3.3.4 Cofnod provided records for six genus/ species of bat within the 1 km search area: Brown Long-eared Bat (*Plecotus auritus*), Daubenton's Bat (*Myotis daubentonii*), Lesser Horseshoe Bat (*Rhinolophus hipposideros*), Natterer's Bat (*Myotis nattereri*), Soprano Pipistrelle (*Pipistrellus pygmaeus*) and Whiskered/ Brandt's Bat (*Myotis mystacinus/ brandtii*). None of these records are from the same 1 km grid square as the proposed development/ wider survey sites.

3.3.5 There are no buildings/ structures within the proposed development/ wider survey sites. There are no trees within the proposed development site. (Semi-) mature trees within the wider survey site are largely restricted to the plantation woodland at *Target Note 6*. Trees were only assessed briefly for potential value to roosting bats during the Extended Phase 1 Habitat Survey; the assessments provided below and in the target notes should therefore not be considered comprehensive.

- The largest tree within the plantation woodland at *Target Note 6* has an approximate diameter at breast height (dbh) of 0.5 m at most. No particular features (with bat roost potential) were seen; some of these trees may have low bat roost potential at most.
- The mature Downy Birch at *Target Note 8* does not offer more than negligible bat roost potential.

3.3.6 The proposed development site, being dominated by agriculturally improved grassland, offers negligible potential value for commuting/ foraging bats (in accordance with Collins

(2023)). Within the wider survey site, the habitat resource includes hedgerows and plantation woodland, which are connected to the wider landscape on all sides. However taking into account the overall small size and largely degraded character, the wider survey site is likely to be of only low potential value for commuting/ foraging bats. For context however, the extended landscape in this area is likely to be of high potential value, it comprising a wide variety of connected habitats including moorland, hedgerows, woodlands and stream valleys.

Great Crested Newts

- 3.3.7 No Great Crested Newt records were provided by Cofnod for the 1 km search area. A small number of Common Frog (*Rana temporaria*) and Common Toad (*Bufo bufo*) records were provided for an adjacent 1 km grid square to that in which the proposed development/ wider survey sites are located.
- 3.3.8 There is no aquatic habitat within the proposed development/ wider survey sites. The proposed development site itself provides habitats of negligible potential value for amphibians (intensively managed or grazed grassland). Should animals be in the locality they would be able to disperse across the site. There are some terrestrial habitats within the wider survey site which could however offer potential for amphibians (for example hedgerow/ plantation woodland bases), however this resource is frequently disturbed. However, the potential presence of Great Crested Newts in terrestrial habitat is governed more by the proximity of a suitable breeding pond than by the quality of the terrestrial habitat.
- 3.3.9 An initial review of the OS map 1:25, 000 scale and relevant internet-based mapping including aerial photography⁶ suggests that there are no waterbodies within approximately 250 m of the proposed development site. Taking this into account, the lack of Cofnod records, and author knowledge of the area the likelihood of Great Crested Newts utilising terrestrial habitats within the survey site is deemed to be negligible. As such this species will be discounted and will not be considered further in this report.

Reptiles

- 3.3.10 Two Slow-worm (*Anguis fragilis*) records was provided by Cofnod for the 1 km search area: dated 2010 and 2018, the nearest from a location approximately 690 m to the southeast of the proposed development site.
- 3.3.11 The intensively managed or grazed grassland habitats within the proposed development site are of negligible potential value for reptiles. Taking into account the intensive agricultural use of the wider survey site, although occasional habitats are of limited potential value (at most), the likelihood of reptiles being present in this location is deemed to be negligible. Whilst the Cefn Uchaf Wildlife Site at *Target Note 10* could support this species group, it is considered sufficiently remote. As such this species group will be discounted and will not be considered further in this report.

Birds

- 3.3.12 Cofnod provided a large number of bird records from within the 1 km search area, largely with four-figure grid references. There are no records for the proposed development/ wider survey sites or immediately adjacent habitats. The closest records (within approximately 250 m of the proposed development site) are for Grey Wagtail (*Motacilla cinerea*), Kestrel

⁶ <https://www.google.co.uk/maps/@52.9356833,-3.2010561,1009m/data=!3m1!1e3?entry=ttu>

(*Falco tinnunculus*), Swift (*Apus apus*), Greenfinch (*Chloris chloris*) and House Martin (*Delichon urbicum*). Other potentially relevant records within the search area include Bullfinch (*Pyrrhula pyrrhula*), Buzzard (*Buteo buteo*), Coal Tit (*Periparus ater*), Dunnock (*Prunella modularis*), Goldfinch (*Carduelis carduelis*), Great Spotted Woodpecker (*Dendrocopos major*), Great Tit (*Parus major*), Green Woodpecker (*Picus viridis*), Long-tailed Tit (*Aegithalos caudatus*), Nuthatch (*Sitta europaea*), Curlew (*Numenius arquata*), Skylark (*Alauda arvensis*), Starling (*Sturnus vulgaris*), Tawny Owl (*Strix aluco*) and Wren (*Troglodytes troglodytes*). There are particular concentrations of records from the Berwyn SAC/ SPA/ SSSI to the north and also to the south of Coed Nant Lafar Wildlife Site.

- 3.3.13 The proposed development site itself offers no potential value to nesting birds. Nesting opportunities provided by the habitats which characterise the wider survey site are largely limited to the plantation woodland (*Target Note 6*), hedgerow lengths and the tree at *Target Note 5a*.

Other Species

- 3.3.14 Cofnod provided a range of moth, bee and other invertebrate records for the 1 km search area, although none from within the proposed development/ wider survey sites or immediately adjacent habitats. Cofnod records the proposed development/ wider survey sites as being within an 'Important Invertebrate Area'⁷ and also within a 'B-Line'⁸.
- 3.3.15 Overall, some of the habitats within the wider survey site provide limited potential for invertebrates (for example hedgerows); the proposed development site itself offers negligible potential value.
- 3.3.16 A small number of other mammal records were supplied by Cofnod; including for Hare (*Lepus europaeus*), Grey Squirrel (*Sciurus carolinensis*), Hedgehog (*Erinaceus europaeus*) and Otter (*Lutra lutra*). There are no habitats within/ immediately adjacent to the proposed development/ wider survey sites which could support Otter, and/ or be of any particular potential value to Hare. There is one 2011 record for Hedgehog from a location approximately 920 m to the east of the proposed development site; Hedgehog could utilise habitats within the wider survey site, although the proposed development site offers no potential value.
- 3.3.17 A small number of fungi records were provided although none from the proposed development site/ immediately adjacent habitats.

⁷ <https://www.buglife.org.uk/our-work/important-invertebrate-areas/>

⁸ <https://www.buglife.org.uk/our-work/b-lines/b-lines-wales/>

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 protected sites, habitats and flora, and specific species groups in the section below. Potential impacts have been considered with reference to the information/ plans provided only. This assessment considers the proposed development site and immediately surrounding area (wider survey site).

4.1.2 *Section 4* of this report identifies existing (valued) ecological resources/ biodiversity and explains how these features will be maintained/ protected wherever possible. *Sub-section 4.3* proposes measures to achieve net benefit for biodiversity and confirms how these measures might be secured.

4.2 Evaluation, Assessment and Recommendations

Protected Sites

- 4.2.1 No statutory protected sites would be directly impacted by the proposed slurry lagoon/ access track. The closest statutory sites are Berwyn a Mynyddoedd de Clwyd ~ Berwyn and South Clwyd Mountains SAC/ Berwyn SPA/ Berwyn SSSI, located approximately 525 m to the north at its closest point. It is understood that WCBC/ Natural Resources Wales (NRW) will screen the planning application with regards the consideration of potential indirect impacts of atmospheric ammonia discharge from the lagoon on the SAC/ SPA. This is outside the remit of this PEA⁹.
- 4.2.2 No non-statutory protected sites (Wildlife Sites) would be directly impacted by the proposed slurry lagoon/ access track. There are six such sites within 1 km of the proposed development site, the nearest being Cefn Uchaf Wildlife Site (W103) (*Target Note 10*) which is located approximately 45 m to the northeast of the proposed development site at the closest point. A small stream which passes through this Wildlife Site is also recorded upstream at *Target Notes 8 and 9* – it is piped under the proposed development site and throughout much of the wider survey site. No direct impacts on this stream will result due to the proposals.
- 4.2.3 There is the potential for indirect impacts to the stream (*Target Note 9* and downstream)/ Cefn Uchaf Wildlife Site during both the construction and operational phases of the slurry lagoon/ access track. Potential indirect impacts during construction are associated with silt-laden run-off, dust, earth clumps *etc*, and during operation from for example the discharge of leachate to the ground from the slurry lagoon, or via runoff.

⁹ It is suggested that any consideration by WCBC/ NRW of potential indirect impacts of atmospheric ammonia discharge from the lagoon on the SAC/ SPA, should also consider Wildlife Sites. This is outside the remit of this PEA.

- 4.2.4 The following mitigation/ avoidance measures (with regards the stream/ Cefn Uchaf Wildlife Site) should be implemented:
- To avoid any possible inadvertent impacts, prior to the start of any preparatory or construction work, temporary protective fencing (of a design which is sufficient to prevent the rolling of earth clumps downslope) will be installed along the northern edge of the works associated with the lagoon/ turning area, and the eastern side of the new access track. The aim of this fencing will be to prevent any earth clumps reaching the stream or wildlife Site.
 - This fence will remain in-situ, and in an effective state of repair, until the completion of the proposed development. No access/ storage of materials/ construction work, etc will be allowed beyond this fence.
- 4.2.5 General best practice measures will be implemented during any preparatory and construction works to avoid any indirect impacts (e.g., dust, diffuse pollution, etc) on adjacent habitat, including the stream/ those within the Wildlife Site. The general advice contained in the Guidance for Pollution Prevention (GPP) leaflets produced by SEPA, EA and the Environment and Heritage Service (Northern Ireland) will 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.
- 4.2.6 Assuming implementation of best practice measures, indirect impacts to the stream/ Cefn Uchaf Wildlife Site associated with the construction of the slurry lagoon/ access track will be negligible.
- 4.2.7 No indirect impacts to the stream or Wildlife Site during the operational phase are envisaged. It is understood that the effectiveness of the clay lining has to be approved/ 'passed' by NRW, with the potential for a geotextile liner being required if the clay lining does not reach certain parameters. It is therefore understood that ensuring the lagoon is effectively sealed to prevent discharge of leachate to the ground or via runoff (to the nearby stream) is in integral part of the process. A hedgerow is also being planted (refer to *Section 4.3*) which will assist with the reduction of/ likely prevent any potential runoff from the track/ turning circle reaching the stream/ Wildlife Site.

Habitat

- 4.2.8 The proposed development site is almost entirely characterised by intensively managed or grazed improved grassland, with a small tyre storage pile also present. Habitat resources within the wider survey site include the following features:
- broad-leaved plantation woodland (*Target Note 6*);
 - a single individual tree (*Target Note 5a*);
 - various hedgerow lengths (intact or defunct) (*Target Notes 3, 5 and 6a*);
 - improved grassland, and a small area of species-poor grassland;
 - a very short length of stream (*Target Note 8*); and
 - hard-standing/ bare ground.

When the habitat resources listed above are considered individually and/ or as part of the wider survey site, they are considered to be of no more than site value¹⁰ (due to their size, quality (disturbance *etc.*) and geographical location).

- 4.2.9 The hedgerows lengths (when considered as part of a wider network) maybe of greater value. '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). Based on the current level of survey information (and with only short lengths of longer hedgerows surveyed) determining potential 'important' hedgerows in accordance with the 'ecological criteria' established in the *Hedgerow Regulations 1997*, cannot be undertaken.
- 4.2.10 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 for any of the hedgerows within the wider survey site. 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 however it is considered that the hedges present could be deemed to be of local value as they form part of a network/ wider resource in the landscape.
- 4.2.11 No further survey of the habitat within the proposed development or wider survey sites is considered necessary. Direct impacts associated with the proposed slurry lagoon/ access track will be limited to improved grassland/ a tyre store. The loss/ modification of this habitat would not result in any significant impacts.
- 4.2.12 Valued ecological resources are located close to the proposed development site: the stream corridor, Cefn Uchaf Wildlife Site (*Target Notes 9 and 10*) and various hedge lengths; mitigation/ avoidance measures with regards the stream/ Wildlife Site are considered above. The only hedge is close proximity to the works is a defunct hedge at *Target Note 3*. As a precautionary approach it is suggested that, to prevent inadvertent damage to this hedgerow, a short length of heras-style fencing will also be installed at the south-western edge of the lagoon works.

Flora

- 4.2.13 No notable and/ or *Schedule 9* plants were recorded during the survey, and none are known from the proposed development/ wider survey sites. No particular biosecurity (beyond standard best practice) measures are deemed warranted taking into account the scale, location and impact of the proposal.

Fauna

Badgers

- 4.2.14 No setts or Badger evidence was recorded during the Extended Phase 1 Habitat Survey. There are no perceived sett excavation opportunities within the proposed development site, and only negligible opportunities within the wider survey site. The grassland resources

¹⁰ In accordance with CIEEM (2018).

within the proposed development/ wider survey sites provide habitat of moderate-high potential value for Badger foraging.

- 4.2.15 No particular (adverse) impacts on Badgers are anticipated at the current time. Potential impacts on loss of potential foraging habitat are negligible. No impacts on Badger movements are perceived. The planting proposals in *Section 4.3* include (native) fruit bearing shrubs as a potential food resource.
- 4.2.16 Should the development not be initiated within 12 months of the Extended Phase 1 Habitat Survey (February 2025) it would be appropriate for a suitably qualified ecologist to undertake a precautionary pre-construction sett check in advance.

Bats

- 4.2.17 There are no buildings/ structures within the proposed development/ wider survey sites. No trees will be directly impacted as part of the proposals. As such no direct impacts on roosting bats are anticipated. Some of the trees at *Target Note 6* may have low bat roost potential at most. As such, although there is no formal guidance on disturbance in relation to bat roosts, any further consideration of potential indirect (disturbance) to tree roosting bats is not deemed warranted. If it becomes necessary to fell or prune any (semi-mature/ mature) trees, they should be subject to an inspection in the first instance 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.
- 4.2.18 The habitat resource provided by the proposed development site has been assessed as being of negligible potential value for foraging/ commuting bats, with habitats in the wider survey site offering low potential value. The proposal will not involve any external lighting and no boundary features will be adversely impacted. As such potential (negative) impacts to foraging/ commuting bats are deemed negligible, and no further survey or specific mitigation measures are considered necessary.

Birds

- 4.2.19 No bird nesting habitat will be impacted by the proposal. No further survey for birds is deemed necessary.

Other Species

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

4.3 Enhancement Measures: Net Benefit for Biodiversity

Introduction

- 4.3.1 Technical Advice Note 5 (Nature Conservation and Planning) (Welsh Assembly Government, 2009) and Wrexham County Borough Council (2011) seek developments to achieve net biodiversity gain. The requirement to secure and maintain net benefit for biodiversity (NBB) (through enhancements) was reinforced in a letter issued by the Chief Planner (Welsh Government) to all planning departments in October 2019. NBB has been defined as *'the concept that development should leave biodiversity and ecosystems in a*

*better state than before, through securing long term, measurable and demonstrable benefit, primarily on site.*¹¹

- 4.3.2 This was reiterated in a letter from the Minister for Climate Change to the Heads of Planning dated October 2023. An Annex¹² attached to this letter provided text to update Planning Policy Wales (PPW). Subsequently, Chapter 6 of PPW has been updated as of 11/10/23 which provides *'further clarity on securing net benefit for biodiversity through the application of the step-wise approach, including the acknowledgement of off-site compensation measures as a last resort, and, the need to consider enhancement and long-term management at each step.'* NBB provision *'should be proportional to the extent and impact of development'* (CIEEM 2022).
- 4.3.3 WCBC (2011) lists *'examples of how enhancements could be achieved on development sites'*. The options provided include for *'planting native trees and shrubs of local provenance'*, *'connecting existing habitats with species rich hedgerows'*, and provision of *'roosting opportunities for bats'* and bird boxes. CIEEM (2022) states that *'a key requirement is that the measures put forward are suitable in the local context of the site'*. It is proposed to plant a small area of native scrub/ trees, a hedgerow, and install bird and bat boxes. The proposed enhancements will therefore target habitats (trees/ scrub as well as hedgerow (a priority habitat under Section 7)), and priority species/ species of nature conservation interest likely to be present at the site (nesting birds, bats (several species of which are priority species listed on Section 7)).

Biodiversity Enhancement Recommendations

- 4.3.4 The locations of the proposed enhancements as detailed below are indicated on a plan reproduced in Appendix 3.
- Tree/ Scrub & Hedgerow Planting*
- 4.3.5 It is proposed to plant a small triangle of land to the west of the access track with native trees and shrubs (equating to approximately 0.04 ha), and an approximately 88 m length of native species-rich hedgerow to the east of the access track/ north of the turning area. The planting area/ hedgerow will be fenced off from livestock as required. This planting will utilise native species of certified British origin and ideally local provenance (Local Seed Zone 304).
- 4.3.6 An appropriate mix for the small triangle of planting is as follows: Hawthorn, Blackthorn, *Salix caprea* (Goat Willow), *Viburnum opulus* (Guelder-rose), Elder, Silver and/ or Downy Birch and Rowan. The following approximate proportions (excluding the latter two trees) would be appropriate respectively: 35%: 30%: 20%: 10%: 5%; with three of each of the tree species. Planting should reflect soil conditions, for example, Goat Willow will be planted in wetter areas. It may however be appropriate to source a 'Wild wood tree pack' from the Woodland Trust¹³ which includes Downy Birch, Hawthorn, Crab Apple (*Malus sylvestris*), Hazel, Goat Willow and Holly. If this option was chosen, supplementing with three Rowan trees would be recommended.

¹¹ <https://www.gov.wales/targeted-policy-changes-planning-policy-wales-net-benefit-biodiversity-and-ecosystems-resilience>

¹² Annex to Heads of Planning Letter Dated 11 October 2023: Addressing the Nature Emergency through the Planning System: Updated National Planning Policy for Chapter 6 of Planning Policy Wales.

¹³ <https://shop.woodlandtrust.org.uk/wild-wood-tree-pack>

¹⁴ The Woodland Trust website confirms that all of their trees are sourced and grown in the UK.

4.3.7 The hedgerow will be planted as a staggered, double row with four to five plants per metre. Ideally the species composition will reflect hedges near to the proposed development site and include Hawthorn, Blackthorn, Hazel, Elder, Willow and Dog-rose. An appropriate mix might be: 50%: 20%: 10%: 10%: 5%: 5%. It may however be appropriate to source a 'hedgerow tree pack' from the Woodland Trust¹⁵ in which case the 'traditional mix' or 'upland mix' would be suitable options. These packs include the option of purchasing hedgerow trees: Silver Birch would be appropriate in this instance.

4.3.8 Bare-rooted forestry size transplants should be used with the individual plants being notch planted between November and March. They will be planted in accordance with the advice provided by the Woodland Trust¹⁶. The trees/ shrubs will need stakes and Rabbit guards.

4.3.9 All planting will be fenced off from livestock as required.

Bat and Bird Boxes

4.3.10 All the proposed boxes as detailed below will be installed either by, or under the direction of, a suitably qualified ecologist to ensure correct installation. On installation the location of each box will be photographed and recorded using a hand-held GPS, with a final plan prepared indicating the locations.

4.3.11 The following bat boxes are proposed to be installed on appropriate mature trees within the plantation woodland at *Target Note 6*:

- 2 no. Vincent Pro Bat Box¹⁷ (This FSC timber box has been proven with seven UK species including Common Pipistrelle, Soprano Pipistrelle, Brown Long-eared, Natterer's and Whiskered Bat). This box type requires minimal maintenance.

4.3.12 The bat boxes will be sited on two different trees, no lower than 3 m from the ground (ideally between 3 m and 5 m), generally facing south, southwest and southeast wherever possible (so that they are not overly exposed). There should be no over-hanging branches/ other vegetation and there should be direct and easy access to the entrances. Generally the bat-boxes should be located in the darkest area possible, away from artificial light sources.

4.3.13 The following bird boxes are proposed to be installed on appropriate mature trees within the plantation woodland at *Target Note 6*:

- 2 no. 1B Schwegler General Purpose Nest Box¹⁸.

4.3.14 The bird boxes will be installed out of reach, 3 m or more off the ground, and should be located somewhere between (facing) north through east to southeast; avoiding prevailing winds and direct sunlight where possible. The boxes should ideally be installed utilising wire or similar (not nails) to facilitate easy maintenance.

4.3.15 Bird boxes should be subject to checking/ cleaning out on an annual basis; refer below.

¹⁵ <https://shop.woodlandtrust.org.uk/hedgerow-tree-packs>

¹⁶ <https://www.woodlandtrust.org.uk/plant-trees/advice/how-to-plant/>

¹⁷ For example, <https://www.nhbs.com/vincent-pro-bat-box>

¹⁸ For example, <https://www.nhbs.com/1b-schwegler-nest-box>

Maintenance and Monitoring

- 4.3.16 The importance of securing long-term management/ maintenance and monitoring is central to the NBB approach (e.g., CIEEM 2022). This should also be proportional to the scale and impact of the development.

All Planting

- 4.3.17 Once the trees/ shrubs and hedgerow have been planted, an area of at least 1 m² around them should be kept weed-free. This will be achieved either through the use of mulch mats or the appropriate application of glyphosate-based herbicides (such as Roundup) during the growing season. This maintenance operation should be undertaken once a year for the first 3 years. Watering may also need to be undertaken during establishment. Any losses will be replaced.

Trees/ Shrubs

- 4.3.18 Once the tree/ shrub resource is successfully established, no long-term management is likely to be required.

Hedgerow

- 4.3.19 The young plants within the hedgerow should be cut back in the first year to approximately one-third of their height to promote bushy growth.
- 4.3.20 A well-established hedge will require trimming from about the sixth year. The hedge shape should be 1.8-2 m high and at least 1.8-2 m wide. Once established, the requirement for annual management should be reviewed. If possible, the top and side opposite to the track/ turning area could be left uncut every other year. Otherwise cutting should be undertaken after January but before March. Once established the hedge should be laid every 10-30 years between mid-November and early March. The best time to lay the hedge would be when stem growth reaches between 5-10 cm diameters at the base.

Bat and Bird Boxes

- 4.3.21 The General Purpose bird boxes should be inspected annually and cleaned if necessary. This can be undertaken by the land-owner. All maintenance should be carried out when the last bird has left the nest-box; at least October. As such all nest-boxes should be cleaned in late-autumn (late October/ November). At least 2 to 3 weeks should be allowed after fledging before undertaking any cleaning. The *Wildlife and Countryside Act 1981*, as amended states that cleaning should only be carried out between 1st August and 31st January and that any eggs present should be destroyed immediately. All nest material should be completely removed and disposed of safely along with any other debris. To ensure that parasite build-up is controlled the inside of the nest-box should be cleansed with boiling water. Care should be taken when opening nest-boxes as it is possible that they could be inhabited by bees, wasps or even bats.
- 4.3.22 It is important to remember that once discovered, a bat roost is legally protected and must not be disturbed. If a bat roost is suspected to be present a suitably qualified bat consultant or the Clwyd Bat Group¹⁹ should be contacted and may need to undertake the annual maintenance operations detailed below. To discover whether a bat-box is being used they can be watched at dusk during the summer to see if any bats emerge or a search can be

¹⁹ <http://www.clwydbatgroup.com/>

conducted beneath the box entrance for the characteristic crumbly bat droppings. Again, should it be necessary to inspect the bat-box an appropriately licensed individual may be required to undertake this work. Occasionally a bat-box may be used by nesting birds. If this is the case it should be cleaned as per the procedure outlined above.

- 4.3.23 The Vincent Pro bat boxes do not require annual maintenance. However, it is good practice in late autumn to early spring, to carefully brush the entrances and to remove any build-up of dust, dirt or cobwebs that could block the openings. Any branches or other vegetation that may have grown up around the boxes should also be pruned/ removed. If any of the bat-boxes are not used after two years they should be re-sited.
- 4.3.24 The use of any of the bird boxes should be recorded during the nesting season (March to August inclusive). The general purpose boxes are likely to be used by Tit species. Where possible a record should be maintained of which bat boxes have been utilised and by what species. Records of nesting birds/ bats should be submitted to Cofnod²⁰ (the Local Environmental Records Centre for North Wales).

²⁰ <https://www.cofnod.org.uk/Home>

5 TARGET NOTES

Target Note 1. The footprint of the proposed slurry lagoon (within the proposed development site) comprises the north-eastern corner of a larger field supporting agriculturally improved grassland. It is understood that silage crops are taken from this field. The sward is to approximately 0.05 m in height, and appears to have been frequently driven over; it has also been subject to muck spraying in the recent past. The sward is grass dominated, largely *Lolium perenne* (Perennial Rye-grass) with lesser amounts of *Poa annua* (Annual Meadow-grass), *Agrostis* spp. (Bent species) and *Dactylis glomerata* (Cock's-foot); the latter largely associated with the field edges. With the exception of abundant *Cerastium fontanum* (Common Mouse-ear), (tall-)herbs and forbs are infrequent, and include *Ranunculus repens* (Creeping Buttercup), *Rumex obtusifolius* (Broad-leaved Dock), *Trifolium repens* (White Clover), *Stellaria media* (Common Chickweed) and *Veronica persica* (Common Field-speedwell).

Target Note 2. The proposed access trackway (within the proposed development site) crosses the western corner of a larger field supporting agriculturally improved grassland. It is Sheep grazed (locally heavily/ puddled). The sward is to approximately 0.10 m in height and is dominated by grasses, largely Bent species and Perennial Rye-grass, with lesser amounts of Cock's-foot. (Tall-)herbs and forbs are scattered throughout at various levels of abundance, including frequent/ locally abundant *Urtica dioica* (Common Nettle), frequent Broad-leaved Dock, occasional *Cirsium arvense* (Creeping Thistle) and Creeping Buttercup, and less amounts of Common Mouse-ear.

Target Note 3. A defunct, unfenced, hedgeline, comprising scattered mature bushes of *Salix* sp. (a Willow species), *Sambucus nigra* (Elder), *Prunus spinosa* (Blackthorn), *Corylus avellana* (Hazel), and *Crataegus monogyna* (Hawthorn). [This resource continues outside the wider survey site]. The base is open and appears grass dominated and or bare. At *Target Note 3a* a previous alignment of this hedge line now comprises stumps only along a slight bank/ slope, having, it is understood, been decimated in a storm. Tall-herbs including Common Nettle, Broad-leaved Dock and *Digitalis purpurea* (Fox-glove) are scattered throughout the grass dominated resource that remains.

Target Note 3b denotes a mature *Fraxinus excelsior* (Ash) tree [outside the wider survey site].

Target Note 4. A mature Ash tree [outside the wider survey site].

Target Note 5. Multiple lengths of roadside hedge, some of which are associated with banks. [These resources continue outside the wider survey site]. They are of variable dimensions, ranging from 1.5 to 2 m high and 1.5 m wide. Woody species recorded include Hazel, Hawthorn, Blackthorn, *Rosa canina* agg. (Dog-rose) and Elder. Characteristic base layer plants include *Geum urbanum* (Wood Avens), *Geranium lucidum* (Shining Crane's-bill), *Mercurialis perennis* (Dog's-Mercury), *Stellaria holostea* (Greater Stitchwort), *Polypodium vulgare* (Polypody) and *Silene dioica* (Red Campion). The length either side of a mature *Betula* cf. *pubescens* (Downy Birch) at *Target Note 5a* is species-poor, being dominated by Hawthorn, and is frequently open at the base (and also appears species-poor (and disturbed)).

Target Note 6. Three adjacent small blocks of broad-leaved plantation woodland associated with a trackway and parking/ turning area. The ground appears to be manmade and is locally steeply sloping. The canopy trees range from young, through semi-mature to mature, and include *Aesculus hippocastanum* (Horse-chestnut), *Fagus sylvatica* (Beech), Ash, *Larix* sp. (a Larch species), *Pinus sylvestris* (Scot's Pine), *Betula pendula* (Silver Birch), *Sorbus aucuparia* (Rowan) and Willow, with an occasional Elder shrub, or very locally dense Blackthorn. The base layer is larger species-poor and disturbed, frequently bare or characterised by locally frequent low-growing *Rubus fruticosus* agg. (Bramble), with a range of common associates. A defunct, gappy hedge forms the roadside boundary at *Target Note 6a*. Farm materials/ discarded equipment are frequent throughout the blocks, largely on the edges – for example at *Target Note 6b* there are numerous stored tyres (within the proposed development site). At *Target Note 6c* there is a very small stand of species-poor grassland adjacent to an existing gateway.

The largest tree has an approximate diameter at breast height (dbh) of 0.5 m at most. Trees were not individually assessed for their potential to support roosting bats, however no particular features were seen; some may have low bat roost potential at most.

Target Note 7. A covered strawbale store [outside the wider survey site].

Target Note 8. A small stream enters the field from under the adjacent road and shortly enters a pipe, reappearing at *Target Note 9*.

Target Note 9. Here the stream [outside the wider survey site] is approximately 0.2-0.3 m wide, at the base of an approximately 2 m deep, steep-sided gully. It is a minor feature and was not assessed in detail.

Target Note 10. The western edge of Cefn Uchaf Wildlife Site. Not directly accessed.

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7 DATA**Table 1 – Vascular plant species recorded within the survey site during the Extended Phase 1 Habitat Survey**

* within proposed development site

Plant Species	<i>Festuca rubra</i> (Red Fescue)*
<i>Aesculus hippocastanum</i> (Horse-chestnut)	<i>Ficaria verna</i> (Lesser Celandine)
<i>Betula pendula</i> (Silver Birch)	<i>Galanthus</i> sp. (Snowdrop species)
<i>Betula</i> cf. <i>pubescens</i> (Downy Birch)	<i>Galium aparine</i> (Cleavers)
<i>Corylus avellana</i> (Hazel)	<i>Geranium lucidum</i> (Shining Crane's-bill)
<i>Crataegus monogyna</i> (Hawthorn)	<i>Geum urbanum</i> (Wood Avens)
<i>Fagus sylvatica</i> (Beech)	<i>Glechoma hederacea</i> (Ground-ivy)*
<i>Fraxinus excelsior</i> (Ash)	<i>Holcus lanatus</i> (Yorkshire-fog)*
<i>Larix</i> sp. (a Larch species)	<i>Lapsana communis</i> (Nipplewort)
<i>Pinus sylvestris</i> (Scot's Pine)	<i>Lolium perenne</i> (Perennial Rye-grass)*
<i>Prunus spinosa</i> (Blackthorn)	<i>Mercurialis perennis</i> (Dog's-Mercury)
<i>Rosa canina</i> agg. (Dog-rose)	<i>Myosotis arvensis</i> (Field Forget-me-not)
<i>Salix</i> sp. (a Willow species)	<i>Poa annua</i> (Annual Meadow-grass)*
<i>Sambucus nigra</i> (Elder)	<i>Polypodium vulgare</i> (Polypody)
<i>Sorbus aucuparia</i> (Rowan)	<i>Potentilla sterilis</i> (Barren Strawberry)
	<i>Ranunculus repens</i> (Creeping Buttercup)*
<i>Agrostis</i> spp. (Bent species)*	<i>Rubus fruticosus</i> agg. (Bramble)*
<i>Alliaria petiolata</i> (Garlic Mustard)	<i>Rumex obtusifolius</i> (Broad-leaved Dock)*
<i>Anthriscus sylvestris</i> (Cow Parsley)	<i>Senecio vulgaris</i> (Groundsel)
<i>Cardamine</i> cf. <i>hirsuta</i> (Hairy Bitter-cress)*	<i>Silene dioica</i> (Red Campion)
<i>Cerastium fontanum</i> (Common Mouse-ear)*	<i>Stellaria holostea</i> (Greater Stitchwort)
<i>Cirsium arvense</i> (Creeping Thistle)*	<i>Stellaria media</i> (Common Chickweed)*
<i>Cirsium vulgare</i> (Spear Thistle)*	<i>Taraxacum</i> sect. <i>Ruderalia</i> (Common Dandelion)
<i>Dactylis glomerata</i> (Cock's-foot)*	<i>Trifolium repens</i> (White Clover)*
<i>Digitalis purpurea</i> (Fox-glove)*	<i>Urtica dioica</i> (Common Nettle)*
<i>Dryopteris</i> sp.	<i>Veronica persica</i> (Common Field-speedwell)*
<i>Epilobium montanum</i> (Broad-leaved Willowherb)	

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 Birds

8.4.1 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*.

8.4.2 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.

8.4.3 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.

8.4.4 *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/E12093
Your Reference	C538
Requested By	Max Ellson, Marches Ecology LLP
Data Users	Mr Max Ellson, Partner, Marches Ecology LLP; Mr Tom Knight, Partner, Marches Ecology LLP; Mr Peter Newbrook (R.J & G.E NEWBROOK & SON); Mr Keith Owen (Kebek Consulting); Mr Getin James (Architect)
Search Date	01/02/2024 16:49
Expiry Date	01/08/2024 (may be extended on request)
Search Type	Chargeable

Important Information

- Use of the data is governed by Cofnod's [Terms & Conditions](#).
- Data marked as confidential or sensitive must not be released into the public domain, with the exception of the Public Version of the PDF report, which has had sensitive information removed or restricted.
- You should not amend any part of the downloaded records.
- Unless otherwise agreed, use of the data is valid until the Expiry Date (01/08/2024).
- Past records of presence of a habitat or species do not guarantee continued occurrence; absence of records does not imply absence of a species, merely that no records are held by Cofnod; Cofnod cannot guarantee the accuracy of supplied data; copyright of records remains with the original recorder.
- The Dataset ID associated with each record can be used to find information about the provenance of the data. See the [Cofnod Metadata](#) page for more information.
- Verification Levels are given for each record and indicate whether the record has been assessed by an expert.
- Please [contact us](#) if you have any questions about using the data or wish to add further Data Users.

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 Red Data Lists, 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, **INNS-IAS** - The Invasive Alien Species (Enforcement and Permitting) Order 2019: Species of Special Concern, **INNS-W** - Invasive Non-native Species (INNS) of Interest to Wales, **IUCN-RL[VU]** - IUCN Global Red List of Threatened Species: Fungi (Vulnerable), **LBAP-A** - Anglesey Local Biodiversity Action Plan, **LBAP-C** - Conwy Local Biodiversity Action Plan, **LBAP-D** - Denbighshire Local Biodiversity Action Plan, **LBAP-E** - Eryri National Park Authority Local Biodiversity Action Plan, **LBAP-F** - Flintshire Local Biodiversity Action Plan, **LBAP-G** - Gwynedd Local Biodiversity Action Plan, **LBAP-T** - North and Mid Wales Trunk

Road Agent Biodiversity Action Plan, **LBAP-W** - Wrexham Local Biodiversity Action Plan, **LI-BR-48[LR]** - Bryophyte Rarity List for Vice-County 48: Merionethshire (Locally rare), **LI-BR-49[LR]** - Bryophyte Rarity List for Vice-County 49: Caernarvonshire (Locally rare), **LI-BR-50[LR]** - Bryophyte Rarity List for Vice-County 50: Denbighshire (Locally rare), **LI-BR-51[EX]** - Bryophyte Rarity List for Vice-County 51: Flintshire (Locally extinct), **LI-BR-51[LR]** - Bryophyte Rarity List for Vice-County 51: Flintshire (Locally rare), **LI-BR-52[LR]** - Bryophyte Rarity List for Vice-County 52: Anglesey (Locally rare), **LI-FU-NW** - Rare Fungi of North-west Wales (Agarics and Boletes), **LI-VP-48[LR]** - Rare Plant Register for Vice-County 48: Merionethshire (Locally Rare), **LI-VP-48[LS]** - Rare Plant Register for Vice-County 48: Merionethshire (Locally Scarce), **LI-VP-49[LR]** - Rare Plant Register for Vice-County 49: Caernarvonshire (Locally Rare), **LI-VP-49[LS]** - Rare Plant Register for Vice-County 49: Caernarvonshire (Locally Scarce), **LI-VP-50[LNS]** - Rare Plant Register for Vice-County 50: Denbighshire (Locally near scarce), **LI-VP-51[LR]** - Rare Plant Register for Vice-County 51: Flintshire (Locally rare), **LI-VP-51[LS]** - Rare Plant Register for Vice-County 51: Flintshire (Locally scarce), **LI-VP-52[LR]** - Rare Plant Register for Vice-County 52: Anglesey (Locally Rare), **LI-VP-52[LS]** - Rare Plant Register for Vice-County 52: Anglesey (Locally Scarce), **PBA** - Protection of Badgers Act 1992, **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, **WCA5** - Wildlife & Countryside Act 1981 Schedule 5 - Animals which are protected, **WCA8** - Wildlife & Countryside Act 1981 Schedule 8 - Plants 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, **WRL-TM[VU]** - IUCN compliant Red List for Britain's Terrestrial Mammals (Vulnerable), **WRL-VP[NT]** - Vascular Plant Red Data List for Wales (Near Threatened)

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
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
D0061/007/01	Cambrian Ornithological Society data digitised by Cofnod - 2002 data for Anglesey and Caernarfonshire Vice-counties	Cambrian Ornithological Society	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
D0098/001/02	Bat records held by Clwyd Bat Group - Hibernation records to Winter 2016	Clwyd Bat Group	Species
D0098/005/01	Bat records held by Clwyd Bat Group - Hibernation records Winter 2019-2020	Clwyd Bat Group	Species
D0108/001/03	Brown Hare records collated by North Wales Wildlife Trust - Brown Hare records	Ymddiriedolaeth Natur Gogledd Cymru/North Wales Wildlife Trust	Species
D0216/001/03	Miscellaneous species records held by Denbighshire County Council (records to 2004)	Cyngor Sir Ddinbych/Denbighshire County Council	Species
D0229/002/01	Wrexham Wildlife Sites data - Database	North Wales Wildlife Trust & Cyngor Bwrdeistref Sirol Wrecsam/Wrexham County Borough Council	Species
D0346/001/01	eBird records - 2020 records from Cofnod area	Cornell Lab of Ornithology	Species
D0346/002/01	eBird records - 2021 records from Cofnod area	Cornell Lab of Ornithology	Species
D0969/001/05	Miscellaneous species records submitted to rECOrd	rECOrd	Species
D1072/001/02	Mammal records from Britain from the Atlas of Mammals (1993), with some subsequent records	Biological Records Centre (NBN Download)	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
D1089/001/03	Database for the Atlas of Freshwater Fishes	Biological Records Centre (NBN Download, 13/11/2019).	Species
D1117/001/01	ad hoc Cofnod Online Recording System records	Individual Recorder(s)	Species
D1169/004/04	Vice-County dataset - Vascular plant records from Denbighshire Vice-county (50). - Complete dataset	Delyth Williams (BSBI Vice County Recorder)	Species
D1285/001/03	Vice-County dataset - Moth records from Denbighshire and Flintshire Vice-counties (50 and 51)	Justin Williams	Species

D1295/001/05	Dragonfly records from the British Dragonfly Society Recording Scheme - Records from the Cofnod area	British Dragonfly Society Recording Scheme (2022). Dragonfly records from the British Dragonfly Society Recording Scheme. Occurrence dataset on the NBN Atlas	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
D1297/039/01	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
D1297/050/01	BirdTrack records - 2022 records for Vice-County 50 (Denbighshire)	Ian M. Spence & British Trust for Ornithology	Species
D1330/001/01	Invasive Non Native Species records, submitted to Cofnod as part of the N. Wales and Dee Invasive Non Native Species Forum 'Record An Alien' project	Individual recorders	Species
D1331/002/01	Miscellaneous species records submitted by staff of Natural Resources Wales	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1448/002/01	Black Grouse records gathered as part of the annual Black Grouse monitoring programme for Wales (not including SCARABS surveys). - Other species records	RSPB Cymru, Cyfoeth Naturiol Cymru/Natural Resources Wales and Denbighshire County Council	Species
D1543/001/01	Miscellaneous bat records collected by Sam Dyer - Building and Roost records	Sam Dyer	Species
D1666/001/01	Records captured from Licence Returns submitted to Natural Resources Wales - Mammal records captured during 2016 from survey licence return forms	Cyfoeth Naturiol Cymru/Natural Resources Wales	Species
D1681/001/03	National Bat Monitoring Programme Hibernation Survey - Records received 12/03/2020	Bat Conservation Trust	Species
D1734/001/02	Swift Inventory of Low-Level Screaming Parties in the UK, 2009-2014 - Records from Cofnod area	RSPB (NBN download, 23/01/2020)	Species
D1747/001/03	Bryophyte data for Great Britain and Ireland from the British Bryological Society held by BRC: data compiled post-Atlas - Cofnod area records	British Bryological Society and Biological Records Centre (NBN download 11/12/2019)	Species
D1748/001/01	Miscellaneous species records collected by Tom Knight (personal records)	Tom Knight	Species
D1814/001/01	Records of Curlew and Lapwing collected as part of the Curlew Cymru Project	Individual recorders	Species
D1844/001/03	iRecord data for the Cofnod area - Verified data	Biological Records Centre and Individual Recorders	Species
D1844/004/01	iRecord data for the Cofnod area - Records of selected Bumblebee species (not previously held)	iRecord	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
D1865/001/01	Miscellaneous species records collected as part of NWWT Living Landscapes Projects - ORS entry	Ymddiriedolaeth Natur Gogledd Cymru/North Wales Wildlife Trust	Species
D1923/001/01	Natural Resources Wales (NRW) Licence Return Dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales (NBN Download, 05/12/2019)	Species
D1944/002/01	Big Bluebell Watch - 2018 records	The Woodland Trust (NBN Download)	Species
D1991/001/02	Moth records collected by Andrew Graham from VC's 50 and 51	Andrew Graham	Species
D0220/001/01	GIS Datasets for Protected Sites in Wales - Areas of Outstanding Natural Beauty	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/001/02	GIS Datasets for Protected Sites in Wales - Areas of Outstanding Natural Beauty	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/001/03	GIS Datasets for Protected Sites in Wales - Areas of Outstanding Natural Beauty	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/001/04	GIS Datasets for Protected Sites in Wales - Areas of Outstanding Natural Beauty	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
D0220/009/01	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
D0220/009/12	GIS Datasets for Protected Sites in Wales - Sites of Special Scientific Interest (SSSI) - GIS dataset	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
D0220/010/01	GIS Datasets for Protected Sites in Wales - Special Protection Areas-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/010/02	GIS Datasets for Protected Sites in Wales - Special Protection Areas-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/010/03	GIS Datasets for Protected Sites in Wales - Special Protection Areas-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/010/04	GIS Datasets for Protected Sites in Wales - Special Protection Areas-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/010/05	GIS Datasets for Protected Sites in Wales - Special Protection Areas-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	Sites
D0220/010/06	GIS Datasets for Protected Sites in Wales - Special Protection Areas-GIS dataset	Cyfoeth Naturiol Cymru/Natural Resources Wales	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	Contains Natural Resources Wales information; Natural Resources Wales and Database Right. All rights Reserved. Contains Ordnance Survey Data. Ordnance Survey Licence number AC0000849444. Crown Copyright and Database Right.	Sites
D1168/001/01	Regionally Important Geological and Geomorphological Sites (RIGS)	Cyfoeth Naturiol Cymru/Natural Resources Wales, Welsh Assembly Government, and Association of Welsh RIGS Groups.	Sites

D1168/001/02	Regionally Important Geological and Geomorphological Sites (RIGS)	Cyfoeth Naturiol Cymru/Natural Resources Wales, Welsh Assembly Government, and Association of Welsh RIGS Groups.	Sites
D1168/001/03	Regionally Important Geological and Geomorphological Sites (RIGS)	Cyfoeth Naturiol Cymru/Natural Resources Wales, Welsh Assembly Government, and Association of Welsh RIGS Groups	Sites
D1168/001/04	Regionally Important Geological and Geomorphological Sites (RIGS)	Cyfoeth Naturiol Cymru/Natural Resources Wales, Welsh Assembly Government, and Association of Welsh RIGS Groups	Sites
D1168/001/05	Regionally Important Geological and Geomorphological Sites (RIGS)	Cyfoeth Naturiol Cymru/Natural Resources Wales, Welsh Assembly Government, and Association of Welsh RIGS Groups	Sites
D1168/001/06	Regionally Important Geological and Geomorphological Sites (RIGS)	Association of Welsh RIGS Groups. Contains Natural Resources Wales information © Natural Resources Wales and Database Right. All rights Reserved.	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
D1981/001/01	All Wales B-Lines GIS maps	Buglife Cymru	Sites
D1981/001/02	All Wales B-Lines GIS maps	Buglife Cymru	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	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
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

Cofnod - North Wales Environmental Information Service

Intec, Ffordd y Parc, Parc Menai, Bangor, Gwynedd, LL57 4FG

Tel: 01248 847456 Email: info@cofnod.org.uk Website: www.cofnod.org.uk Facebook: facebook.com/Cofnod Twitter: twitter.com/Cofnod Instagram:

- PUBLIC VERSION -

Search Location	Grid Reference
Cefn Uchaf Farm, Nantyr	SJ1920038340

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)	SJ1838	2 records, between 15/05/2010 and 23/07/2011	Steven Davies	1	Reported to recorder	Y Foel, S	Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	BAP, LBAP-C, LBAP-D, S7, WBR	NA, PC
<i>Acanthis cabaret</i> (Lesser Redpoll)	SJ2037	11/02/2021	Recorder Name withheld (obsr2032552)	5		4 Maybury Ave, Llangollen	Feeding on lawn under feeders no other birds in the garden.	D0346/002/01	BAP, LBAP-C, LBAP-D, S7, WBR	UA
<i>Accipiter gentilis</i> (Goshawk / Gwalch Marthin)	SJ183383	15/11/2012	David Smith	1		Vivod, Berwyn.	Stooping on corvid flock at great speed.	D1331/002/01	Bonn2, CITES-A, GBNN SIP, LBAP-C, RL-NT, WCA1.1, WCA9	PC
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ19303922	08/04/2010	David Smith	1 male			Singing. BTO code: S	D1331/002/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ190393	24/05/2012	Martyn Harris		Field record	North-East of Y Foel.	Heard singing.	D0969/001/05	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Alauda arvensis</i> (Skylark / Ehedydd)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	7		Y Foel/Ceiriog Forest		D1297/042/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Anchoscelis helvola</i> (Flounced Chestnut / Castan Grech)	SJ194375	03/09/2010	Tony Jacques	1 Adult		Coed Cestyll	Habitat: Grassland: marshy, upland. Method: Skinner Trap (125W MV)	D1285/001/03	BAP, LBAP-G, S7	NA
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ194375	09/07/2010	Susan Loose	1 Adult Male		Coed Cestyll	This was on my field and the 1st I have found there	D1117/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	KC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Anguis fragilis</i> (Slow-worm / Neidr Ddefaid)	SJ194376 (Selected from Interactive Map)	29/04/2018	Susan Loose	1 Adult Male; 1 Adult Female		Coed Cestyll	Under tin sheet refuge	D1117/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	KC
<i>Atethmia centrugo</i> (Centre-barred Sallow / Melyn yr Ynn)	SJ194375	03/09/2010	Tony Jacques	1 Adult		Coed Cestyll	Habitat: Grassland: marshy, upland. Method: Skinner Trap (125W MV)	D1285/001/03	BAP, LBAP-G, S7	NA
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ196376	15/05/2008	Susan Loose	1		Coed Cestyll	I have found a few toads here in the last five years. It is my land and I am happy to manage it to encourage them	D1117/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	KC
<i>Bufo bufo</i> (Common Toad / Llyffant Dafadennog)	SJ194376 (Selected from Interactive Map)	2 records, between 25/07/2009 and 15/04/2017	Susan Loose	2 Adult; 1 Adult	Live Sighting	Coed Cestyll	Seen under refuge with nest of voles; To record presence from old photos	D1117/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, LBAP-T, S7, WCA5	PC
<i>Circus cyaneus</i> (Hen Harrier / Boda Tinwyn)	SJ18693885 (Selected from Interactive Map)	02/05/2020	Tom Knight	1 Male	Live Sighting	Y Foel	Hunting.	D1748/001/01	BDir1, Bonn2, CITES-A, LBAP- C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR, WCA1.1	PC
<i>Cirrhia icteritia</i> (Sallow / Melyn Penfelyn)	SJ194375	03/09/2010	Tony Jacques	1 Adult		Coed Cestyll	Habitat: Grassland: marshy, upland. Method: Skinner Trap (125W MV)	D1285/001/03	BAP, LBAP-G, S7	NA
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ1838	15/05/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Activity: S. Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	NA
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ2038 (Approximate)	27/05/2020	Mr Nigel Douglas	1		Ceiriog Terrace	Don't often hear them in the village, this one was flying over, calling	D1297/039/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Cuculus canorus</i> (Cuckoo / Cog)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	2		Y Foel/Ceiriog Forest		D1297/042/01	BAP, LBAP-C, LBAP-D, 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>Cuculus canorus</i> (Cuckoo / Cog)	SJ192390 (Selected from Interactive Map)	01/05/2023	Tom Knight	1	Auditory record	Y Foel		D1748/001/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	UA
<i>Emberiza citrinella</i> (Yellowhammer / Bras Melyn)	SJ2038	2 records, between 15/05/2010 and 12/06/2010	Steven Davies	1		Glyn Ceiriog	Birdtrack.: Activty: S	D1297/025/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, UKBR, WBR	PC
<i>Erinaceus europaeus</i> (Hedgehog / Draenog)	SJ201384 (Selected from Interactive Map)	30/04/2011	Emily Meilleur	1 Adult		Church Hill, Glynceiriog	One hedgehog in garden	D1117/001/01	BAP, Bern3, LBAP-A, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, WRL- TM[VU]	PC
<i>Eugnorisma glareosa</i> (Autumnal Rustic / Gwladwr yr Hydref)	SJ194375	03/09/2010	Tony Jacques	1 Adult		Coed Cestyll	Habitat: Grassland: marshy, upland. Method: Skinner Trap (125W MV)	D1285/001/03	BAP, LBAP-G, S7	NA
<i>Eugnorisma glareosa</i> (Autumnal Rustic / Gwladwr yr Hydref)	SJ187391 (Selected from Interactive Map)	02/09/2020	Sarah Hawkes	8 Adult		Dew Pond		D1117/001/01	BAP, LBAP-G, S7	KC
<i>Eugnorisma glareosa</i> (Autumnal Rustic / Gwladwr yr Hydref)	SJ195391 (Selected from Interactive Map)	08/09/2020	Sarah Hawkes	2 Adult		Y Foel Gorse		D1117/001/01	BAP, LBAP-G, S7	KC
<i>Falco columbarius</i> (Merlin / Cudyll Bach)	SJ188378 (Selected from Interactive Map)	August 2015	Keith Offord	1 Adult Male; 1 Adult Female; 1 Nest; 1 Chick; 1 Egg; 1 Brood		Berwyn - Glyn Ceiriog	One fledged bird.	D1331/002/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-EN, UKBR, WBA, WCA1.1	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Falco columbarius</i> (Merlin / Cudyll Bach)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	1		Y Foel/Ceiriog Forest	male	D1297/042/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-EN, UKBR, WBA, WCA1.1	PC
<i>Falco peregrinus</i> (Peregrine / Hebog Tramor)	SJ186387 (Selected from Interactive Map)	01/05/2015	Keith Offord	1		Vivod		D1331/002/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-G, WCA1.1	PC
<i>Falco peregrinus</i> (Peregrine / Hebog Tramor)	SJ1837 (Selected from Interactive Map; Supplied by Original Recorder; Approximate)	5 records, between 23/04/2016 and 07/06/2020	Keith Offord; Mr Nigel Douglas	1 Adult Male; 1 Adult Female; 1 Nest; 2 Juvenile; 1 Adult Male; 1 Adult Female; 1 Nest; 2 Egg; 2 Brood; 4; 3; 1		Berwyn; Berwyn SSSI; Ceiriog Quarries west	Brooding adult; Egg numbers based on minimum P21; 3 well grown chicks on nest ledge, up to 10 feet away from nest. Two were wing flapping vigorously and looked very close to fledging. Saw adult bird heading back towards nest as we left; Female peregrine was feeding small chicks on the nest. At least 2 chicks were visible; Female sitting tight on nest on cliffs	D1331/002/01 , D1117/001/01 , D1297/039/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-G, WCA1.1	PC
<i>Falco peregrinus</i> (Peregrine / Hebog Tramor)	SJ188378 (Selected from Interactive Map)	2014	Keith Offord	1 Adult Male; 1 Adult Female; 1 Nest; 2 Chick; 2 Egg; 2 Brood		Berwyn - Glyn Ceiriog	2 chicks fledged	D1331/002/01	BDir1, Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-G, WCA1.1	PC
<i>Falco subbuteo</i> (Hobby / Hebog yr Ehedydd)	SJ18573892	01/07/2010	David Smith				Low over. BTO code: H	D1331/002/01	Bern2, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	PC
<i>Falco subbuteo</i> (Hobby / Hebog yr Ehedydd)	SJ2038 (Approximate)	30/05/2020	Mr Nigel Douglas	1		Ceiriog Terrace	Flew low over school playing fields, over top of houses	D1297/039/01	Bern2, Bonn2, CITES-A, LBAP-C, LBAP-G, WBA, WCA1.1	PC
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ191385 (Selected from Interactive Map)	08/04/2019	Susan Roberts	1		Berwyn - Vivod	Perched in a tree	D1331/002/01	Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, 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>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ191391 (Selected from Interactive Map)	05/04/2020	Tom Knight	1 Male	Live Sighting	Y Foel	Hunting.	D1748/001/01	Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBA, WBR	PC
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ1839	23/07/2011	Steven Davies	1		Y Foel	BirdTrack	D1297/025/01	Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBA, WBR	PC
<i>Falco tinnunculus</i> (Kestrel / Cudyll Coch)	SJ18793896 (Selected from Interactive Map)	25/10/2020	Tom Knight	1	Live Sighting	Y Foel		D1748/001/01	Bern2, Bonn2, CITES-A, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, S7, UKBA, WBR	UA
<i>Ficedula hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	1 Adult Male		Coed Cestyll, Glyn Ceiriog	First sighting on my land	D1117/001/01	Bonn2, LBAP-C, LBAP-E, LBAP-G, RL-VU, S7, UKBA, WBR	PC
<i>Ficedula hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ19403766 (Selected from Interactive Map)	23/04/2015	Susan Loose	1 Adult Male; 1 Adult Female		Coed Cestyll, Glyn Ceiriog	Carrying nesting material into a bird box I had replaced 2 days before. The male is ringed	D1117/001/01	Bonn2, LBAP-C, LBAP-E, LBAP-G, RL-VU, S7, UKBA, WBR	PC
<i>Ficedula hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ195376 (Selected from Interactive Map)	21/04/2015	Susan Loose	1 Adult Male		Coed Cestyll, Glyn Ceiriog	Checking out nestboxes. 2 days later occupied one I replaced on this day	D1117/001/01	Bonn2, LBAP-C, LBAP-E, LBAP-G, RL-VU, S7, UKBA, WBR	PC
<i>Ficedula hypoleuca</i> (Pied Flycatcher / Gwybedog Brith)	SJ194376 (Selected from Interactive Map)	4 records, between 30/04/2016 and 24/04/2021	Susan Loose	3 Full-Grown; 2 Full-Grown; 2 Male; 3 Female; 1 Female; 1 Adult Male	Live Sighting	Coed Cestyll; Coed Cestyll, Glyn Ceiriog	2 males and a female checking out nestboxes; 1 male and female checking out nestboxes; Around nestboxes; At least one pair, probably more, checking out the nestboxes	D1117/001/01	Bonn2, LBAP-C, LBAP-E, LBAP-G, RL-VU, S7, UKBA, WBR	PC, KC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Hemistola chrysoprasaria</i> (Small Emerald / Emralt Barf yr Hen Wr)	SJ194376 (Selected from Interactive Map)	24/07/2018	Susan Loose	1 Adult	Trapped at light	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BAP, LBAP-G, S7	PC
<i>Hepialus humuli</i> (Ghost Moth / Chwimwyfyn Rhithiol)	SJ19393762 (Selected from Interactive Map)	20/06/2019	Susan Loose	2 Adult Male; 2 Adult Female	Trapped at light	Coed Cestyll		D1117/001/01	BAP, LBAP-G, S7	KC
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ198379	25/04/2018	Anon				Date = date entered rather than date seen. It is assumed that the date they entered the record is close to the date they saw it as the time period that the Woodland Trust app was live was limited.	D1944/002/01	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	NA
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ188379	24/05/2012	Martyn Harris		Field record	North-west of Plas Lleucu	In flower.	D0969/001/05	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	PC
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ195375 (Selected from Interactive Map)	19/05/2023	Susan Loose	Flowering		Coed Cestyll, Glyn Ceiriog	Along the verge and large amounts in the woodland. Grid squares don't quite give the right coverage. Some with white flowers.	D1117/001/01	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	UA
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ194376 (Selected from Interactive Map)	19/05/2023	Susan Loose	Flowering		Coed Cestyll, Glyn Ceiriog	Large amounts in the woodland. Grid squares don't quite give the right coverage	D1117/001/01	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ1937	2 records, between 28/06/2010 and 27/05/2012	Williams, D. and Swindells, S.; Williams, D.			Aberwheel;Coed Cestyll	Main field	D1169/004/04	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	NA
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ2038	17/04/2016	Denbs Group (Williams, D.)			Erw-Wladys		D1169/004/04	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	NA
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ195376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Damp woodland	D1169/004/04	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	NA
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	NA
<i>Hyacinthoides non-scripta</i> (Bluebell / Clychau'r Gog)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	LBAP-A, LBAP-C, LBAP-E, LBAP-F, LBAP-T, WCA8	NA
<i>Hydraecia micacea</i> (Rosy Rustic / Gwladwr Gwridog)	SJ194375	03/09/2010	Tony Jacques	14 Adult		Coed Cestyll	Habitat: Grassland: marshy, upland. Method: Skinner Trap (125W MV)	D1285/001/03	BAP, LBAP-G, S7	NA
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ194391 (Selected from Interactive Map)	26/04/2012	Nick Critchley, DCS.	1		Vivod Moor, Berwyn.	Cock calling.	D1331/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ183389 (Selected from Interactive Map)	26/04/2012	Nick Critchley, DCS.	1		Vivod Moor, Berwyn.	Cock calling.	D1331/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ19143907	20/10/2009	David Smith	1 male, 1 female			Pair on burn. BTO code: RG	D1331/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ191391 (Selected from Interactive Map)	08/02/2013	David Smith	2		Vivod Moor, Berwyn.	Pair flushed from mown strip in dry heath.	D1331/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ186389 (Selected from Interactive Map)	19/04/2013	Howard Davies	1		Vivod Moor, Berwyn.	Cock calling at dawn.	D1331/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ184390 (Selected from Interactive Map)	19/04/2013	Howard Davies	1		Vivod Moor, Berwyn.	Cock calling at dawn.	D1331/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ187392 (Selected from Interactive Map)	2 records, between 19/04/2013 and 18/04/2016	Howard Davies; Keith Offord	1; 3		Vivod Moor, Berwyn.;LMZ: North Berwyn 16; Vivod	Cock calling at dawn.	D1331/002/01 , D1448/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC, NA
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ186392 (Selected from Interactive Map)	16/04/2014	Howard Davies	4 Male		Vivod	Around the hill, Y foel	D1331/002/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC
<i>Lagopus lagopus</i> (Red Grouse / Grugiar Goch)	SJ190390 (Selected from Interactive Map)	05/07/2020	Tom Knight	2	Live Sighting	Y Foel		D1748/001/01	BAP, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WBR	PC
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ23	29/06/2005	Mr A Williams	1		-Withheld-	-Withheld-	D0108/001/03	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ13	17/12/2008	Arfon Hughes			-Withheld-	-Withheld-	D1331/002/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ13 (Selected from Interactive Map)	17/01/2013	David Smith	1		-Withheld-	-Withheld-	D1331/002/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ13	29/06/1992	CCW			-Withheld-	-Withheld-	D0216/001/03	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ23	1975	Schofield, P.			-Withheld-	-Withheld-	D1072/001/02	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	NA
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ13 (Selected from Interactive Map)	02/05/2020	Tom Knight	6	Live Sighting	-Withheld-	-Withheld-	D1748/001/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ13	10/07/2019	Martyn Harris	1	Field record	-Withheld-	-Withheld-	D0969/001/05	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ13 (Selected from Interactive Map)	25/10/2020	Tom Knight	1	Live Sighting	-Withheld-	-Withheld-	D1748/001/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC
<i>Lepus europaeus</i> (Hare / Ysgyfarnog)	SJ13 (Observation Point Grid Reference)	20/10/2021	Jonathan Hulson	1 Adult		-Withheld-	-Withheld-	D1865/001/01	BAP, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7	PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ19363922	08/04/2010	David Smith	1 male			In gorse. BTO code: LI	D1331/002/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ19603915 (Selected from Interactive Map)	05/04/2020	Tom Knight	4	Live Sighting	Y Foel	2 male, 2 female.	D1748/001/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ1838	12/06/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Activity: H. Survey: Observer data	D0062/008/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	NA
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ19453918 (Selected from Interactive Map)	19/04/2020	Tom Knight	2	Live Sighting	Y Foel	Male & female.	D1748/001/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ2038	2 records, between 15/05/2010 and 12/06/2010	Steven Davies	1		Glyn Ceiriog	Birdtrack.: Activity: H	D1297/025/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ1939	23/07/2011	Steven Davies	2		Rhos-Pengwern	BirdTrack	D1297/025/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ1839	23/07/2011	Steven Davies	1		Y Foel	BirdTrack	D1297/025/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	PC
<i>Linaria cannabina</i> (Linnet / Llinos)	SJ18703846 (Selected from Interactive Map)	21/09/2022	Tom Knight	ca. 10		South of Y Foel		D1748/001/01	BAP, Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, S7, UKBR, WBR	UA
<i>Locustella naevia</i> (Grasshopper Warbler / Troellwr Bach)	SJ182387	23/04/2009	Susan Loose	1		Nr Nantyr, Glyn Ceiriog	At dusk a friend and I clearly heard and briefly saw this little bird which we were able to confidently identify over the internet	D1117/001/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	PC
<i>Loxia curvirostra</i> (Crossbill / Gylfingroes)	SJ1838	23/07/2011	Steven Davies	1		Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-C, WCA1.1	PC
<i>Loxia curvirostra</i> (Crossbill / Gylfingroes)	SJ1938 (Approximate)	14/03/1981	Mr P Aley	2		Glyn		D1297/042/01	Bern2, LBAP-C, WCA1.1	PC
<i>Lutra lutra</i> (Otter / Dyfrgi)	SJ2037	06/11/2003	Phillip Llewelyn Morgan			-Withheld-	-Withheld-	D1923/001/01	BAP, Bern2, CHS2, CITES-A, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-T, LBAP-W, S7, WCA5, WRL- TM[VU]	NA
<i>Lyrurus tetrix</i> (Black Grouse / Grugiar Ddu)	SJ13 (Selected from Interactive Map)	06/05/2011	Howard Davies	1 Male		-Withheld-	-Withheld-	D1331/002/01	BAP, BDir2.2, LBAP-C, LBAP-D, LBAP-E, 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>Lyrurus tetrix</i> (Black Grouse / Grugiar Ddu)	SJ13 (Selected from Interactive Map)	2 records, between 26/04/2012 and 13/05/2012	Nick Critchley, DCS.; Howard Davies	2 Male; 1 Female; 2 Male		-Withheld-	-Withheld-	D1331/002/01	BAP, BDir2.2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Lyrurus tetrix</i> (Black Grouse / Grugiar Ddu)	SJ13	20/10/2009	David Smith			-Withheld-	-Withheld-	D1331/002/01	BAP, BDir2.2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Lyrurus tetrix</i> (Black Grouse / Grugiar Ddu)	SJ13	19/04/2010	Keith Offord	1 male		-Withheld-	-Withheld-	D1331/002/01	BAP, BDir2.2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Lyrurus tetrix</i> (Black Grouse / Grugiar Ddu)	SJ13 (Selected from Interactive Map)	08/02/2013	David Smith	1 Female		-Withheld-	-Withheld-	D1331/002/01	BAP, BDir2.2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Lyrurus tetrix</i> (Black Grouse / Grugiar Ddu)	SJ13	2 records, between 31/12/2010 and 23/07/2011	Steven Davies	1 Male; 1	Reported to recorder	-Withheld-	-Withheld-	D0062/008/01 , D1297/025/01	BAP, BDir2.2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	NA, PC
<i>Lyrurus tetrix</i> (Black Grouse / Grugiar Ddu)	SJ13 (Approximate)	14/03/1981	Mr P Aley	2		-Withheld-	-Withheld-	D1297/042/01	BAP, BDir2.2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Melanchra persicariae</i> (Dot Moth / Gwyfyn Dotiog)	SJ194376 (Selected from Interactive Map)	24/07/2018	Susan Loose	1 Adult	Trapped at light	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BAP, LBAP-G, S7	PC
<i>Meles meles</i> (Badger / Mochyn Daeaf)	SJ1937	19/07/2000	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 Daeaf)	SJ2038	07/03/2013	Douglas, Nigel			-Withheld-	-Withheld-	D1844/001/03	Bern3, LBAP-C, LBAP-D, LBAP-F, LBAP-W, PBA	NA
<i>Milvus milvus</i> (Red Kite / Barcud)	SJ184380 (Selected from Interactive Map)	21/09/2022	Tom Knight	3		East of Aber Las		D1748/001/01	BDir1, Bonn2, CITES-A, LBAP- C, LBAP-G, WBA, WCA1.1, WCA9	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Muscicapa striata</i> (Spotted Flycatcher / Gwybedog Mannog)	SJ1838	15/05/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Activity: H. Survey: Observer data	D0062/008/01	BAP, Bern2, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBR, WBR	NA
<i>Myotis daubentonii</i> (Daubenton's Bat / Ystlum y Dwr)	SJ2038 (Supplied by Original Recorder (Checked))	2 records, between 21/01/2012 and 03/03/2012	Robert Jones	1 Individual	Bat Roost	-Withheld-	-Withheld-	D1666/001/01	Bern2, Bonn2, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-F, LBAP-G, WCA5	NA
<i>Myotis daubentonii</i> (Daubenton's Bat / Ystlum y Dwr)	SJ1837	2 records, both on 03/03/2012	Anon - Clwyd Bat Group; Mr K. Davies	1	Bat Roost	-Withheld-	-Withheld-	D0098/001/02 , D1681/001/03	Bern2, Bonn2, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-F, LBAP-G, WCA5	NA
<i>Myotis daubentonii</i> (Daubenton's Bat / Ystlum y Dwr)	SJ1937	01/03/2020	Anon - Clwyd Bat Group	6	Bat Roost	-Withheld-	-Withheld-	D0098/005/01	Bern2, Bonn2, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-F, LBAP-G, WCA5	NA
<i>Myotis mystacinus/brandtii</i> (Whiskered/Brandt's Bat)	SJ1937	01/03/2020	Anon - Clwyd Bat Group	2	Bat Roost	-Withheld-	-Withheld-	D0098/005/01	Bern2, Bonn2, CHS2, HDir4, LBAP-C, RL-DD, WCA5	NA
<i>Myotis nattereri</i> (Natterer's Bat / Ystlum Natterer)	SJ2038 (Supplied by Original Recorder (Checked))	21/01/2012	Robert Jones	1 Individual	Bat Roost	-Withheld-	-Withheld-	D1666/001/01	Bern2, Bonn2, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, WCA5	NA
<i>Myotis nattereri</i> (Natterer's Bat / Ystlum Natterer)	SJ1937	01/03/2020	Anon - Clwyd Bat Group	3	Bat Roost	-Withheld-	-Withheld-	D0098/005/01	Bern2, Bonn2, CHS2, HDir4, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ188389 (Selected from Interactive Map)	26/04/2012	Nick Critchley, DCS.	1		Vivod Moor, Berwyn.	One heard in this general area at dawn.	D1331/002/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ183382 (Selected from Interactive Map)	22/04/1997	Bird Monitoring On Berwyn Report 1997	2		Glyn ceiriog		D1331/002/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ197391	04/04/2020	Ruth Calcraft	1		South of Y Foel	Bird may have been the same bird as seen at SJ203392	D1814/001/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ19073897 (Selected from Interactive Map)	05/04/2020	Tom Knight	2	Live Sighting	Y Foel		D1748/001/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ19503913 (Selected from Interactive Map)	24/05/2020	Tom Knight	1	Live Sighting	Y Foel		D1748/001/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ196391 (Selected from Interactive Map)	14/06/2020	Tom Knight	1	Live Sighting	Y Foel		D1748/001/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ1938 (Approximate)	12/04/2020	Mr Nigel Douglas	2		Dragonwyck		D1297/039/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ2037 (Approximate)	08/04/1979	Mr L Evans	2		Glyn Ceiriog (B4500)		D1297/042/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Numenius arquata</i> (Curlew / Gylfinir)	SJ187383 (Selected from Interactive Map)	15/04/2022	Tom Knight	2	Auditory record	Near Tan-y-foel		D1748/001/01	BAP, BDir2.2, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	UA

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)	SJ2037	3 records, between 26/01/2008 and 15/05/2010	Anon; Steven Davies			Llangollen Denbighshire;Glyn Ceiriog, S	Occurrence ID: NBN-GA000567-BGBW2008-22022030-139349963; Occurrence ID: NBN-GA000656-BGBW2009-16437571-106608936; Birdtrack:.. Activity: H	D1852/001/01 , D1852/002/01 , D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ2038	4 records, between 26/01/2008 and 12/06/2010	Anon; Steven Davies			Llangollen Denbighshire;Glyn Ceiriog	Occurrence ID: NBN-GA000567-BGBW2008-22022034-139454512; Occurrence ID: NBN-GA000656-BGBW2009-16437766-106608932; Birdtrack:.. Activity: H	D1852/001/01 , D1852/002/01 , D1297/025/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ1937	2 records, between 26/01/2008 and 25/01/2009	Anon			Llangollen Denbighshire	Occurrence ID: NBN-GA000567-BGBW2008-22022026-139272490; Occurrence ID: NBN-GA000656-BGBW2009-16437532-106609051	D1852/001/01 , D1852/002/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	PC
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ1939	05/12/2009	Hilary Nash	12	Reported to recorder	Rhos-Pengwern	Survey: Observer data	D0062/008/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	NA
<i>Passer domesticus</i> (House Sparrow / Aderyn y To)	SJ19463755 (Selected from Interactive Map)	04/08/2021	Susan Loose	3 Adult	Live Sighting	Coed Cestyll, Glyn Ceiriog	Feeding on a feeder by barn	D1117/001/01	BAP, LBAP-C, LBAP-F, LBAP-G, S7, UKBR, WBA	UA
<i>Pipistrellus pygmaeus</i> (Soprano Pipistrelle)	SJ1937	29/09/2009	Sam Dyer	11		-Withheld-	-Withheld-	D1543/001/01	BAP, Bern2, Bonn2, CHS2, HDir4, LBAP-A, LBAP-D, LBAP-E, LBAP-F, LBAP-G, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Plecotus auritus</i> (Brown Long-eared Bat / Ystlum Hirglust)	SJ1937	29/09/2009	Sam Dyer	2		-Withheld-	-Withheld-	D1543/001/01	BAP, Bern2, Bonn2, CHS2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, WCA5	NA
<i>Plecotus auritus</i> (Brown Long-eared Bat / Ystlum Hirglust)	SJ1837	2 records, both on 28/02/2015	Anon - Clwyd Bat Group; Mr K. Davies	1	Bat Roost	-Withheld-	-Withheld-	D0098/001/02 , D1681/001/03	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)	SJ182387 (Selected from Interactive Map)	01/05/2015	Keith Offord	1		Vivod		D1331/002/01	BAP, Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-EN, S7, UKBR, WBR	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2038	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437766-106179500	D1852/002/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437571-106179509	D1852/002/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ1937	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437532-106179696	D1852/002/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ1838	23/07/2011	Steven Davies	1		Y Foel, S	BirdTrack	D1297/025/01	BAP, Bern2, LBAP-C, S7, UKBA	PC
<i>Prunella modularis</i> (Dunnock / Llwyd y Gwrych)	SJ19503756 (Selected from Interactive Map)	24/04/2021	Susan Loose	1 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BAP, Bern2, LBAP-C, S7, UKBA	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ194376 (Selected from Interactive Map)	2 records, between 15/04/2017 and 16/02/2019	Susan Loose	1 Male; 2 Full-Grown	Live Sighting	Coed Cestyll	Male and female, I think there was a 2nd pair but didn't see them all at once	D1117/001/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ183385 (GPS Reading)	08/01/2018	Gordon Plater	2 Adult Male		Glynceiriog	Wooded lane y foel	D1117/001/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ2038	15/05/2010	Steven Davies	1		Glyn Ceiriog	Birdtrack:.. Activity: H	D1297/025/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ1838	23/07/2011	Steven Davies	4		Y Foel, S	BirdTrack	D1297/025/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	PC
<i>Pyrrhula pyrrhula</i> (Bullfinch / Coch y Berllan)	SJ19443763 (Selected from Interactive Map)	04/08/2021	Susan Loose	1 Adult Male	Live Sighting	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BAP, LBAP-C, LBAP-D, LBAP-F, LBAP-G, S7, UKBA, WBR	UA
<i>Rana temporaria</i> (Common Frog / Broga)	SJ198378	28/05/2008	Susan Loose	1		Quarry Road Glyn Ceiriog		D1117/001/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	KC
<i>Rana temporaria</i> (Common Frog / Broga)	SJ194376 (Selected from Interactive Map)	3 records, between 04/09/2010 and 04/08/2021	Susan Loose	1 Juvenile; 1 Adult; 7 Juvenile	Live Sighting; Auditory record	Coed Cestyll; Coed Cestyll, Glyn Ceiriog	To record presence from old photos; Well spread across the site from tiny to adult but not sure where they breed	D1117/001/01	Bern3, HDir5, LBAP-A, LBAP-C, LBAP-F, LBAP-T, WCA5	PC
<i>Rhinolophus hipposideros</i> (Lesser Horseshoe Bat / Ystlum Pedol Lleiaf)	SJ2038 (Supplied by Original Recorder (Checked))	2 records, between 21/01/2012 and 03/03/2012	Robert Jones	1 Individual	Bat Roost	-Withheld-	-Withheld-	D1666/001/01	BAP, Bern2, Bonn2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, WCA5	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Rhinolophus hipposideros</i> (Lesser Horseshoe Bat / Ystlum Pedol Lleiaf)	SJ1837	4 records, between 03/03/2012 and 28/02/2015	Anon - Clwyd Bat Group; Mr K. Davies	1; 2	Bat Roost	-Withheld-	-Withheld-	D0098/001/02 , D1681/001/03	BAP, Bern2, Bonn2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, WCA5	NA
<i>Rhinolophus hipposideros</i> (Lesser Horseshoe Bat / Ystlum Pedol Lleiaf)	SJ1937	01/03/2020	Anon - Clwyd Bat Group	127	Bat Roost	-Withheld-	-Withheld-	D0098/005/01	BAP, Bern2, Bonn2, CHS2, HDir2, HDir4, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, WCA5	NA
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ19463764 (Selected from Interactive Map)	06/08/2011	Susan Loose	10 Adult		Coed Cestyll	Probably a lot more here, these were disturbed in a short space	D1117/001/01	BAP, LBAP-G, S7	KC
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ193376 (Selected from Interactive Map)	21/07/2012	Susan Loose	2 Adult		Coed Cestyll, Glyn Ceiriog		D1117/001/01	BAP, LBAP-G, S7	KC
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ194376 (Selected from Interactive Map)	24/07/2018	Susan Loose	2 Adult	Trapped at light	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BAP, LBAP-G, S7	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Scotopteryx chenopodiata</i> (Shaded Broad-bar / Rhesen Lydan Dywyll)	SJ19493757 (Selected from Interactive Map)	05/08/2021	Susan Loose	1 Adult	Trapped at light	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BAP, LBAP-G, S7	PC
<i>Spilosoma lubricipeda</i> (White Ermine / Ermin Gwyn)	SJ194377	2 records, both on 14/05/2016	Steve Palin	1 Adult male; 1 Adult Male	Mercury vapour light	Coed Cestyll - Sue Loose's field	Method: 125 watt MV; 1 moth!!!!. 125W MV	D1285/001/03 , D1991/001/02	BAP, LBAP-G, S7	NA
<i>Spilosoma lutea</i> (Buff Ermine / Ermin Llwydfelyn)	SJ194376 (Selected from Interactive Map)	05/09/2009	Susan Loose	1 Larvae		Coed Cestyll	To record presence from old photos	D1117/001/01	BAP, LBAP-G, S7	KC
<i>Spilosoma lutea</i> (Buff Ermine / Ermin Llwydfelyn)	SJ194380 (Selected from Interactive Map)	01/07/2020	Sarah Hawkes	2 Adult	Trapped at light	Godrer Graig		D1117/001/01	BAP, LBAP-G, S7	PC
<i>Stilbia anomala</i> (Anomalous / Llwyd Gloyw)	SJ187391 (Selected from Interactive Map)	09/08/2020	Sarah Hawkes	3 Adult		Dew Pond		D1117/001/01	BAP, LBAP-G, S7	KC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ190387 (Approximate)	02/02/2016	Gordon Plater	30		Berwyns	Hill pasture y foel mixed flock with fieldfare	D1117/001/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Sturnus vulgaris</i> (Starling / Drudwen)	SJ186384 (GPS Reading)	08/01/2018	Gordon Plater	150+		Glynceiriog	Feeding upland pasture with a few redwing/fieldfare	D1117/001/01	BAP, BDir2.2, LBAP-C, LBAP-F, LBAP-G, RL-VU, S7, UKBR, WBR	PC
<i>Tholera decimalis</i> (Feathered Gothic / Rhwyll Bluog)	SJ194375	03/09/2010	Tony Jacques	13 Adult		Coed Cestyll	Habitat: Grassland: marshy, upland. Method: Skinner Trap (125W MV)	D1285/001/03	BAP, S7	NA
<i>Tholera decimalis</i> (Feathered Gothic / Rhwyll Bluog)	SJ187391 (Selected from Interactive Map)	02/09/2020	Sarah Hawkes	1 Adult	Trapped at light	Dew Pond		D1117/001/01	BAP, S7	KC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ1939	01/01/2011	Hilary Nash	16	Reported to recorder	Rhos-Pengwern	Survey: Observer data	D0062/008/01	BDir2.2, LBAP-C, RL-CR, UKBA, WBA, WCA1.1	NA
<i>Turdus iliacus</i> (Redwing / Coch Dan Adain)	SJ2038	31/12/2010	Steven Davies	1		Glyn Ceiriog	Birdtrack:	D1297/025/01	BDir2.2, LBAP-C, RL-CR, UKBA, WBA, WCA1.1	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ194376 (Selected from Interactive Map)	29/04/2018	Susan Loose	1 Full-Grown		Coed Cestyll		D1117/001/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, UKBA, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ2038	12/06/2010	Steven Davies			Glyn Ceiriog	Birdtrack.: Activity: H	D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, UKBA, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ1838	23/07/2011	Steven Davies	1		Y Foel, S	BirdTrack	D1297/025/01	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, UKBA, WBA	PC
<i>Turdus philomelos</i> (Song Thrush / Bronfraith)	SJ190378	24/05/2012	Martyn Harris	2	Field record	Llansantffraid Glyn Ceiriog Community, North of Plas Lleucu, Glyn Ceiriog	Appeared to be feeding young at the nest.	D0969/001/05	BAP, BDir2.2, LBAP-A, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, LBAP-W, S7, UKBA, WBA	PC
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ190387 (Approximate)	02/02/2016	Gordon Plater	C10		Berwyns	Mixed flock with starlings hill pasture y foel	D1117/001/01	BDir2.2, LBAP-C, RL-PX, UKBR, WBA, WCA1.1	PC
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ1838	31/12/2010	Steven Davies	14	Reported to recorder	Y Foel, S	Survey: Observer data	D0062/008/01	BDir2.2, LBAP-C, RL-PX, UKBR, WBA, WCA1.1	NA
<i>Turdus pilaris</i> (Fieldfare / Socan Eira)	SJ1839 (Approximate)	15/03/2020	Mr Nigel Douglas	30		Y Foel North	Loose flock flying over, heading north	D1297/039/01	BDir2.2, LBAP-C, RL-PX, UKBR, WBA, WCA1.1	PC
<i>Xestia agathina</i> (Heath Rustic / Clai'r Rhos)	SJ187391 (Selected from Interactive Map)	2 records, both on 02/09/2020	Sarah Hawkes	11 Adult; 1 Adult	Trapped at light	Dew Pond	Very dark form	D1117/001/01	BAP, LBAP-G, S7	KC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Xestia agathina</i> (Heath Rustic / Clai'r Rhos)	SJ195391 (Selected from Interactive Map)	08/09/2020	Sarah Hawkes	4 Adult		Y Foel Gorse		D1117/001/01	BAP, LBAP-G, S7	KC
<i>Xestia castanea</i> (Neglected Rustic / Clai'r Waun)	SJ187391 (Selected from Interactive Map)	2 records, between 09/08/2020 and 02/09/2020	Sarah Hawkes	1 Adult; 19 Adult	Trapped at light	Dew Pond		D1117/001/01	BAP, LBAP-G, S7	KC
<i>Xestia castanea</i> (Neglected Rustic / Clai'r Waun)	SJ195391 (Selected from Interactive Map)	08/09/2020	Sarah Hawkes	1 Adult		Y Foel Gorse		D1117/001/01	BAP, LBAP-G, S7	KC

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)	SJ196391	07/08/2019	Martyn Harris	1	Field record	South of McJones' Strip, Llangollen, Denbshire		D0969/001/05	Bonn2, CITES-A, LBAP-C, RL-NT, UKBA	UA
<i>Accipiter nisus</i> (Sparrowhawk / Gwalch Glas)	SJ1938 (Approximate)	14/03/1981	Mr P Aley	2		Glyn		D1297/042/01	Bonn2, CITES-A, LBAP-C, RL-NT, UKBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ194376 (Selected from Interactive Map)	4 records, between 15/04/2014 and 29/04/2018	Steve Palin; Susan Loose	2 Adult; 3 Full-Grown; 2 Full-Grown		Sue loose's wood above Glyn Ceiriog; Coed Cestyll; Coed Cestyll, Glyn Ceiriog		D1117/001/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	2 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2038	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437726-106734404	D1852/002/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437571-106734455	D1852/002/01	WBA	PC
<i>Aegithalos caudatus</i> (Long-tailed Tit / Titw Cynffon-Hir)	SJ1937	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437532-106734547	D1852/002/01	WBA	PC
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ1939	23/07/2011	Steven Davies			Rhos-Pengwern	BirdTrack	D1297/025/01	Bern2, LBAP-C, UKBA, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ1839 (Approximate)	2 records, between 23/05/2002 and 23/07/2011	Steven Davies; Mr Marco McGinty	38		Y Foel; Y Foel/Ceiriog Forest	BirdTrack	D1297/025/01 , D1297/042/01	Bern2, LBAP-C, UKBA, WBA	PC
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ1838	23/07/2011	Steven Davies			Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-C, UKBA, WBA	PC
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ190393	24/05/2012	Martyn Harris		Field record	North-East of Y Foel.	A few. .	D0969/001/05	Bern2, LBAP-C, UKBA, WBA	PC
<i>Anthus pratensis</i> (Meadow Pipit / Corhedydd y Waun)	SJ191391	24/05/2012	Martyn Harris		Field record	East of Y Foel.	Quite a few.	D0969/001/05	Bern2, LBAP-C, UKBA, WBA	PC
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ189382 (Selected from Interactive Map)	22/06/2016	Gordon Plater	10+		Berwyns	Near cefn canol	D1117/001/01	RL-EN, UKBR, WBA	PC
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ2037	2 records, between 2007 and 15/05/2010	Anon; Steven Davies	24		LL207HB; Glyn Ceiriog, S	Estimated number of screaming swifts. Possible breeding; Birdtrack:.. Activity: H	D1734/001/02 , D1297/025/01	RL-EN, UKBR, WBA	NA, PC
<i>Apus apus</i> (Swift / Gwennol Ddu)	SJ2038 (Approximate)	3 records, between 12/06/2010 and 10/05/2022	Steven Davies; Mr Nigel Douglas; Miss Helen Roberts	3		Glyn Ceiriog; Ceiriog Terrace	Birdtrack:.. Activity: H; First of year	D1297/025/01 , D1297/039/01 , D1297/050/01	RL-EN, UKBR, WBA	PC, UA
<i>Ardea cinerea</i> (Grey Heron / Crëyr Glas)	SJ194376 (Selected from Interactive Map)	23/04/2015	Susan Loose	1 Full-Grown		Coed Cestyll, Glyn Ceiriog	Flying up from the stream in the wood	D1117/001/01	RL-NT	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Buxus sempervirens</i> (Box / Pren Bocs)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	LBAP-C, RDB-NR, RL-DD	NA
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ189382 (Selected from Interactive Map)	22/06/2016	Gordon Plater	4		Berwyns	Including 2 juveniles bathing in roadside puddle	D1117/001/01	Bern2, LBAP-C, RL-EN, UKBR	PC
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437571-105770964	D1852/002/01	Bern2, LBAP-C, RL-EN, UKBR	PC
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ2038	3 records, between 24/01/2009 and 12/06/2010	Anon; Steven Davies			Glyn Ceiriog	Occurrence ID: NBN-GA000656-BGBW2009-16437765-105771282; Birdtrack: Activity: H	D1852/002/01 , D1297/025/01	Bern2, LBAP-C, RL-EN, UKBR	PC
<i>Chloris chloris</i> (Greenfinch / Llinos Werdd)	SJ1838	23/07/2011	Steven Davies	2		Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-C, RL-EN, UKBR	PC
<i>Columba oenas</i> (Stock Dove / Colomen Wyllt)	SJ1939	15/05/2010	Steven Davies	1	Reported to recorder	Rhos-Pengwern	Activity: H. Survey: Observer data	D0062/008/01	BDir2.2, LBAP-G, UKBA	NA
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	1 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	BDir2.1, UKBA	PC
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ194376 (Selected from Interactive Map)	2 records, between 23/04/2015 and 24/04/2021	Susan Loose	3 Full-Grown; 2 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BDir2.1, UKBA	PC, UA
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437571-106987130	D1852/002/01	BDir2.1, 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)	SJ2038	2 records, between 15/05/2010 and 12/06/2010	Steven Davies			Glyn Ceiriog	Birdtrack:.. Activity: H	D1297/025/01	BDir2.1, UKBA	PC
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ1939	23/07/2011	Steven Davies			Rhos-Pengwern	BirdTrack	D1297/025/01	BDir2.1, UKBA	PC
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ1839	23/07/2011	Steven Davies			Y Foel	BirdTrack	D1297/025/01	BDir2.1, UKBA	PC
<i>Columba palumbus</i> (Woodpigeon / Ysguthan)	SJ1838	23/07/2011	Steven Davies			Y Foel, S	BirdTrack	D1297/025/01	BDir2.1, UKBA	PC
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ1939	23/07/2011	Steven Davies			Rhos-Pengwern	BirdTrack	D1297/025/01	BDir2.2, RL-NT, UKBA	PC
<i>Corvus frugilegus</i> (Rook / Ydfran)	SJ1839	23/07/2011	Steven Davies	70		Y Foel	BirdTrack	D1297/025/01	BDir2.2, RL-NT, UKBA	PC
<i>Curruca communis</i> (Whitethroat / Llwydfon)	SJ1838	12/06/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Activity: T. Survey: Observer data	D0062/008/01	LBAP-C, UKBA, WBA	NA
<i>Curruca communis</i> (Whitethroat / Llwydfon)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	3		Y Foel/Ceiriog Forest		D1297/042/01	LBAP-C, UKBA, WBA	PC
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ189382 (Selected from Interactive Map)	22/06/2016	Gordon Plater	6+		Berwyns	Near cefn canol	D1117/001/01	Bern2, LBAP-C, RL-VU, UKBR, 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)	SJ1838	23/07/2011	Steven Davies			Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-C, RL-VU, UKBR, WBA	PC
<i>Delichon urbicum</i> (House Martin / Gwennol y Bondo)	SJ194375 (Selected from Interactive Map)	19/05/2023	Susan Loose	1 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C, RL-VU, UKBR, WBA	UA
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ19123918	17/12/2008	Arfon Hughes				Flushed	D1331/002/01	BDir2.1, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, UKBA, WBA	PC
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ18673915 (Selected from Interactive Map)	15/10/2020	Tom Knight	1	Live Sighting	Y Foel		D1748/001/01	BDir2.1, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, UKBA, WBA	PC
<i>Gallinago gallinago</i> (Snipe / Giach Cyffredin)	SJ1937 (Approximate)	07/12/2022	Ms Susan Loose	1		Coed Cestyll, Glyn Ceiriog, Llangollen LL20 7		D1297/050/01	BDir2.1, Bonn2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, UKBA, WBA	UA
<i>Haematopus ostralegus</i> (Oystercatcher / Pioden Fôr)	SJ2038 (Approximate)	14/03/2020	Mr Nigel Douglas	1		Ceiriog Terrace	Calling from the school playing fields. Never heard one in the village before	D1297/039/01	BDir2.2, LBAP-C, LBAP-G, UKBA, WBA	PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ195375	06/05/2008	Susan Loose	3		Coed Cestyll Glyn Ceiriog		D1117/001/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ194376 (Selected from Interactive Map)	4 records, between 23/04/2015 and 24/04/2021	Susan Loose	2 Full-Grown; 1 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog; Coed Cestyll	Flying overhead; In flight overhead; In flight. They have nested in the adjacent barn	D1117/001/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC, UA
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ1838	23/07/2011	Steven Davies			Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty			Y Foel/Ceiriog Forest		D1297/042/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	PC
<i>Hirundo rustica</i> (Swallow / Gwennol)	SJ194375 (Selected from Interactive Map)	2 records, between 29/04/2023 and 19/05/2023	Susan Loose	2 Full-Grown; 2 Adult		Coed Cestyll Glyn Ceiriog; Coed Cestyll, Glyn Ceiriog	I think that they are nesting in next doors barns as they have in the past	D1117/001/01	Bern2, LBAP-A, LBAP-C, LBAP-G, WBA	UA, KC
<i>Hygrocybe citrinovirens</i> (Citrine Waxcap / Cap Cwyr Lemon)	SJ198381 (Approximate)	20/10/2021	Jonathan Hulson	5 Fruiting		Fron Goch, Glyn Ceiriog		D1865/001/01	IUCN-RL[VU], LBAP-D, LBAP-G, LI-FU-NW	PC
<i>Jasione montana</i> (Sheep's-bit / Clefyryn)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LI-VP-51[LR], WRL-VP[NT]	NA
<i>Jasione montana</i> (Sheep's-bit / Clefyryn)	SJ19023824	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LI-VP-51[LR], WRL-VP[NT]	NA
<i>Jasione montana</i> (Sheep's-bit / Clefyryn)	SJ1938	28/06/2010	Williams, D. and Swindells, S.			Y Foel	1st for 10km sq	D1169/004/04	LI-VP-51[LR], WRL-VP[NT]	NA
<i>Larus fuscus</i> (Lesser Black- backed Gull / Gwylan Gefnddu Leiaf)	SJ1838	12/06/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Survey: Observer data	D0062/008/01	BDir2.2, LBAP-C, LBAP-E, LBAP-G, RL-DD, UKBA, WBA	NA
<i>Meconopsis cambrica</i> (Welsh Poppy / Pabi Cymreig)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LBAP-C, LBAP-D, LI-VP-48[LS], LI- VP-49[LS], RDB- NS	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Meconopsis cambrica</i> (Welsh Poppy / Pabi Cymreig)	SJ2038	17/04/2016	Denbs Group (Williams, D.)			Erw-Wladys		D1169/004/04	LBAP-C, LBAP-D, LI-VP-48[LS], LI-VP-49[LS], RDB-NS	NA
<i>Meconopsis cambrica</i> (Welsh Poppy / Pabi Cymreig)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	LBAP-C, LBAP-D, LI-VP-48[LS], LI-VP-49[LS], RDB-NS	NA
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ190386 (Approximate)	02/02/2016	Gordon Plater	1		Berwyns	Y foel	D1117/001/01	Bern2, LBAP-C, LBAP-T, RL-NT, UKBA	PC
<i>Motacilla cinerea</i> (Grey Wagtail / Siglen Iwyd)	SJ1937	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437532-106609050	D1852/002/01	Bern2, LBAP-C, LBAP-T, RL-NT, UKBA	PC
<i>Oenanthe oenanthe</i> (Wheatear / Tinwen y Garn)	SJ2037	29/04/2005	Mervyn Rogers	1	Reported to recorder	Glyn Ceiriog, S	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, UKBA, WBA	NA
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ194376 (Selected from Interactive Map)	2 records, between 23/04/2015 and 24/04/2021	Susan Loose	2 Full-Grown; 1 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C, WBA	PC, UA
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437571-106179508	D1852/002/01	Bern2, LBAP-C, WBA	PC
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ2038 (Approximate)	2 records, between 24/01/2009 and 16/10/2022	Anon; Mr Nigel Douglas			Ceiriog Terrace	Occurrence ID: NBN-GA000656-BGBW2009-16437766-106179499	D1852/002/01 , D1297/050/01	Bern2, LBAP-C, WBA	PC, UA
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ1838	23/07/2011	Steven Davies	3		Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-C, WBA	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Periparus ater</i> (Coal Tit / Titw Penddu)	SJ19483765 (Selected from Interactive Map)	27/02/2021	Susan Loose	2 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C, WBA	UA
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ188382 (Supplied by Original Recorder (Checked))	30/05/2002	Marco McGinty	1 pair		Y Foel, Glyn Ceiriog		D0061/007/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ194376 (Selected from Interactive Map)	15/04/2014	Steve Palin	1 Adult Male		Sue Loose's field above Glyn Ceriog	Seen by Sue Loose and I but sadly no photo	D1117/001/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	1 Adult Male		Coed Cestyll, Glyn Ceiriog	First sighting on my land	D1117/001/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ198391 (Selected from Interactive Map)	18/04/2016	Keith Offord	1		LMZ: North Berwyn 16; Vivod		D1448/002/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	NA
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ187381 (Selected from Interactive Map)	22/06/2016	Gordon Plater	1		Berwyns	Laneside near tan y foel	D1117/001/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	PC
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ2037	29/04/2005	Mervyn Rogers	1	Reported to recorder	Glyn Ceiriog, S	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	NA
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ1838	3 records, between 15/05/2010 and 23/07/2011	Neil Hughes; Steven Davies	1 Male; 1; 2	Reported to recorder	Y Foel, S	Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Phoenicurus phoenicurus</i> (Redstart / Tingoch)	SJ19603873 (Selected from Interactive Map)	15/04/2022	Tom Knight	2 Adult Male		East of Cefn Uchaf		D1748/001/01	Bern2, LBAP-C, LBAP-E, LBAP-G, UKBA, WBA	UA
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ194376 (Selected from Interactive Map)	4 records, between 23/04/2015 and 29/04/2018	Susan Loose	3 Full-Grown; 1 Full-Grown; 1	Auditory record	Coed Cestyll, Glyn Ceiriog; Coed Cestyll	Heard; Warblers seen but distinguished by calls	D1117/001/01	LBAP-C, UKBA, WBR	PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ2037	29/04/2005	Mervyn Rogers	1	Reported to recorder	Glyn Ceiriog, S	First of year. Survey: Observer data	D0062/008/01	LBAP-C, UKBA, WBR	NA
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ1838	2 records, between 09/06/2011 and 23/07/2011	Neil Hughes; Steven Davies	8	Reported to recorder	Y Foel, S	Activity: FF. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	LBAP-C, UKBA, WBR	NA, PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ2038	2 records, between 15/05/2010 and 12/06/2010	Steven Davies			Glyn Ceiriog	Birdtrack.: Activity: S	D1297/025/01	LBAP-C, UKBA, WBR	PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ19273917	27/05/2011	Martyn Harris	1	Field record	Eastern slopes of Y Foel, Denbighshire	Heard.	D0969/001/05	LBAP-C, UKBA, WBR	PC
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ191391	24/05/2012	Martyn Harris		Field record	East of Y Foel.	Quite a few.	D0969/001/05	LBAP-C, UKBA, WBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Phylloscopus trochilus</i> (Willow Warbler / Telor yr Helyg)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty			Y Foel/Ceiriog Forest		D1297/042/01	LBAP-C, UKBA, WBR	PC
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ201379 (Selected from Interactive Map)	13/10/2014	Nigel Douglas	1		Glyn Ceiriog woods		D1117/001/01	Bern2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, WBA	PC
<i>Picus viridis</i> (Green Woodpecker / Cnocell Werdd)	SJ194376 (Selected from Interactive Map)	14/04/2019	Susan Loose	1 Adult	Live Sighting	Coed Cestyll, Glyn Ceiriog	Heard calling from this location, was somewhere to the North East. First time heard from here	D1117/001/01	Bern2, LBAP-C, LBAP-D, LBAP-E, LBAP-F, LBAP-G, WBA	PC
<i>Pinus sylvestris</i> (Scots Pine / Pinwydden yr Alban)	SJ1837	28/06/2010	Williams, D. and Swindells, S.			Aberwheel		D1169/004/04	RDB-NS	NA
<i>Pinus sylvestris</i> (Scots Pine / Pinwydden yr Alban)	SJ1838	2 records, between 17/04/2016 and 06/10/2016	Stead, M.O.; Denbs Group (Williams, D.)			Y Foel		D1169/004/04	RDB-NS	NA
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ194375	02/01/2009	Susan Loose	1 Adult		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C, WBA	PC
<i>Regulus regulus</i> (Goldcrest / Dryw Eurben)	SJ1838	31/12/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Survey: Observer data	D0062/008/01	Bern2, LBAP-C, WBA	NA
<i>Saxicola rubetra</i> (Whinchat / Crec yr Eithin)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	1		Y Foel/Ceiriog Forest		D1297/042/01	Bern2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-NT, UKBR	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Scolopax rusticola</i> (Woodcock / Cyffyllog)	SJ193376 (Selected from Interactive Map)	19/02/2015	Susan Loose	1 Full-Grown		Coed Cestyll	This is the 3rd time I've seen 1 individual here over the last 10 years since I've owned the land	D1117/001/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, UKBR, WBA	PC
<i>Scolopax rusticola</i> (Woodcock / Cyffyllog)	SJ194376 (Selected from Interactive Map)	2 records, between 07/03/2015 and 16/02/2019	Susan Loose	1 Full-Grown	Live Sighting	Coed Cestyll	Glad to see it's still here; Seen a few times over the years, I try to avoid disturbing them once I know they're there. 3 more seen a few weeks before in the adjacent conifer wood	D1117/001/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, UKBR, WBA	PC
<i>Scolopax rusticola</i> (Woodcock / Cyffyllog)	SJ19483765 (Selected from Interactive Map)	27/02/2021	Susan Loose	1 Full-Grown		Coed Cestyll, Glyn Ceiriog	Looking back. Birds seen regularly at this time of year. I do also see them earlier in the autumn	D1117/001/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, UKBR, WBA	PC
<i>Scolopax rusticola</i> (Woodcock / Cyffyllog)	SJ1937 (Approximate)	07/12/2022	Ms Susan Loose	3		Coed Cestyll, Glyn Ceiriog, Llangollen LL20 7		D1297/050/01	BDir2.1, Bonn2, LBAP-C, LBAP-D, LBAP-F, LBAP-G, RL-VU, UKBR, WBA	PC
<i>Streptopelia decaocto</i> (Collared Dove / Turtur Dorchog)	SJ2038	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437765-106179666	D1852/002/01	BDir2.2, GBNNSIP, RL-NT	PC
<i>Strix aluco</i> (Tawny Owl / Tylluan Frech)	SJ194376 (Selected from Interactive Map)	2 records, between 29/04/2018 and 26/03/2019	Susan Loose	1; 2	Auditory record	Coed Cestyll		D1117/001/01	Bern2, CITES-A, LBAP-C, RL-NT, UKBA	PC
<i>Strix aluco</i> (Tawny Owl / Tylluan Frech)	SJ19513759 (Selected from Interactive Map)	19/06/2019	Susan Loose	1 Adult; 2 Juvenile	Live Sighting	Coed Cestyll	Adult feeding young. See photo	D1117/001/01	Bern2, CITES-A, LBAP-C, RL-NT, UKBA	PC
<i>Strix aluco</i> (Tawny Owl / Tylluan Frech)	SJ195375 (Selected from Interactive Map)	2 records, between 24/04/2021 and 04/08/2021	Susan Loose	1; 1 Adult	Auditory record	Coed Cestyll, Glyn Ceiriog	Heard calling from the same area they have bred before	D1117/001/01	Bern2, CITES-A, LBAP-C, RL-NT, UKBA	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ194376 (Selected from Interactive Map)	22/08/2009	Susan Loose	1 Juvenile Male		Coed Cestyll	To record presence from old photos	D1117/001/01	LBAP-E, RL-DD	KC
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ19483759 (Selected from Interactive Map)	04/08/2021	Susan Loose	1 Adult Female		Coed Cestyll, Glyn Ceiriog		D1117/001/01	LBAP-E, RL-DD	KC
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ2037	04/09/2010	Brian Burnett	1 Adult	Field record	Afon Ceiriog: SJ2037, Glyn Ceiriog		D1295/001/05	LBAP-E, RL-DD	NA
<i>Sympetrum striolatum</i> (Common Darter / Gwäell Gyffredin)	SJ195377	03/09/2009	Sue Loose	1 Adult	Field record	Glyn Ceiriog , west of		D1295/001/05	LBAP-E, RL-DD	NA
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	2 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, UKBA	PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ194376 (Selected from Interactive Map)	2 records, between 23/04/2015 and 24/04/2021	Susan Loose	1 Full-Grown; 2 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, UKBA	PC, UA
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ2038	3 records, between 24/01/2009 and 12/06/2010	Anon; Steven Davies	1		Glyn Ceiriog	Occurrence ID: NBN-GA000656-BGBW2009-16437765-106817332; Birdtrack:.. Activity: S	D1852/002/01 , D1297/025/01	Bern2, UKBA	PC
<i>Troglodytes troglodytes</i> (Wren / Dryw)	SJ1838	2 records, between 09/06/2011 and 23/07/2011	Neil Hughes; Steven Davies	3; 1	Reported to recorder	Y Foel, S	Activity: FL. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, UKBA	NA, 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)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	2		Y Foel/Ceiriog Forest		D1297/042/01	Bern2, UKBA	PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ195387 (GPS Reading)	08/01/2018	Gordon Plater	2		Glynceiriog	Upland pasture	D1117/001/01	BDir2.2, RL-VU, UKBR	PC
<i>Turdus viscivorus</i> (Mistle Thrush / Brych y Coed)	SJ19393758 (Selected from Interactive Map)	24/04/2021	Susan Loose	1 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog		D1117/001/01	BDir2.2, RL-VU, UKBR	PC

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)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	LI-VP-48[LS], LI-VP-49[LS]	NA
<i>Acer campestre</i> (Field Maple / Masarnen Fach)	SJ2038	28/06/2010	Williams, D. and Swindells, S.			Erw-Wladys		D1169/004/04	LI-VP-48[LS], LI-VP-49[LS]	NA
<i>Aeshna cyanea</i> (Southern Hawker / Gwas Neidr y De)	SJ192386 (Selected from Interactive Map)	21/09/2022	Tom Knight	1 Adult Male		South of Y Foel		D1748/001/01	LBAP-E	PC
<i>Alchemilla filicaulis</i> subsp. <i>vestita</i>	SJ1937	27/05/2012	Williams, D.			Coed Cestyll	Far field. 1st SJ13 record since 1986	D1169/004/04	LI-VP-48[LS], LI-VP-49[LS], LI-VP-51[LS]	NA
<i>Alchemilla filicaulis</i> subsp. <i>vestita</i>	SJ194376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Fields	D1169/004/04	LI-VP-48[LS], LI-VP-49[LS], LI-VP-51[LS]	NA
<i>Alchemilla filicaulis</i> subsp. <i>vestita</i>	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LI-VP-48[LS], LI-VP-49[LS], LI-VP-51[LS]	NA
<i>Blindia delphus recurvatus</i> (Recurved Rock- bristle)	SJ2038	September 1972	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LI-BR-48[LR], LI-BR-50[LR], LI-BR-51[LR]	NA
<i>Bombus jonellus</i> (Heath Bumblebee)	SJ187392	23/09/2016	Hawkes, Sarah	adult female		Y Foel Biddulph Tower	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus jonellus</i> (Heath Bumblebee)	SJ1939	20/04/2016	Hawkes, Will			Ceriog valley tops	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bombus lapidarius</i> (Red-tailed Bumblebee)	SJ1939	20/04/2016	Hawkes, Will			Ceriog valley tops	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus lapidarius</i> (Red-tailed Bumblebee)	SJ195392	03/05/2017	Hawkes, Will			Arwelfa	iRecord (Multi-site records)	D1844/001/03	LBAP-F	NA
<i>Bombus lapidarius</i> (Red-tailed Bumblebee)	SJ196392	23/04/2017	Hawkes, Will			Y foel	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus lapidarius</i> (Red-tailed Bumblebee)	SJ19473764 (Selected from Interactive Map)	04/08/2021	Susan Loose	3 Adult	Live Sighting	Coed Cestyll, Glyn Ceiriog	Only focused on a few of many for id	D1117/001/01	LBAP-F	PC
<i>Bombus lucorum</i> (White-tailed Bumblebee)	SJ1939	20/04/2016	Hawkes, Will			Ceriog valley tops	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus lucorum</i> (White-tailed Bumblebee)	SJ196392	23/04/2017	Hawkes, Will			Y foel	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus magnus</i> (Northern White-tailed Bumblebee)	SJ195392	03/05/2017	Hawkes, Will			Arwelfa	iRecord (Multi-site records)	D1844/001/03	LBAP-F	NA
<i>Bombus monticola</i> (Bilberry Bumblebee)	SJ18803910	15/09/2016	Hawkes, Sarah	3 adult female		Y Foel Biddulph Tower	Several monticolas on the moor, this one with definite location, the rest within 300m. iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus monticola</i> (Bilberry Bumblebee)	SJ18813910	26/03/2017	Hawkes, Sarah	2 adult female		Y Foel Biddulph Tower	Comments available on iRecord. iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus monticola</i> (Bilberry Bumblebee)	SJ1939	2 records, between 20/04/2016 and 09/04/2017	Hawkes, Will			Y foel; Ceriog valley tops	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Bombus monticola</i> (Bilberry Bumblebee)	SJ187391 (Selected from Interactive Map)	21/09/2022	Tom Knight	5+ Adult		Y Foel		D1748/001/01	LBAP-F	KC
<i>Bombus pascuorum</i> (Common Carder Bee)	SJ1939	20/04/2016	Hawkes, Will			Ceriog valley tops	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus pascuorum</i> (Common Carder Bee)	SJ19473764 (Selected from Interactive Map)	04/08/2021	Susan Loose	5 Adult; 1 Nest		Coed Cestyll, Glyn Ceiriog	Nest in grass had been disturbed and was being repaired	D1117/001/01	LBAP-F	KC
<i>Bombus pratorum</i> (Early Bumblebee)	SJ1939	20/04/2016	Hawkes, Will			Ceriog valley tops	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus pratorum</i> (Early Bumblebee)	SJ195392	03/05/2017	Hawkes, Will			Arwelfa	iRecord (Multi-site records)	D1844/001/03	LBAP-F	NA
<i>Bombus soroeensis</i> (Broken-belted Bumblebee)	SJ19463757	06/07/2018	Hawkes, Will			Ceriog valley - Sue's field	A specimen was taken to the NHM and B sooroensis was confirmed by Paul Williams.	D1844/004/01	LBAP-F	NA
<i>Bombus terrestris</i> (Buff-tailed Bumblebee)	SJ1939	20/04/2016	Hawkes, Will			Ceriog valley tops	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus terrestris</i> (Buff-tailed Bumblebee)	SJ196392	23/04/2017	Hawkes, Will			Y foel	iRecord (iRecord general data)	D1844/001/03	LBAP-F	NA
<i>Bombus terrestris</i> (Buff-tailed Bumblebee)	SJ19473764 (Selected from Interactive Map)	04/08/2021	Susan Loose	4 Adult	Live Sighting	Coed Cestyll, Glyn Ceiriog	Large numbers of bumble bees on site, only focused on a few to id	D1117/001/01	LBAP-F	PC

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)	SJ1937	28/06/2010	Williams, D.			Aberwheel		D1169/004/04	LI-VP-48[LS]	NA
<i>Bryum alpinum</i> (Alpine Thread-moss)	SJ2038	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LI-BR-51[EX]	NA
<i>Bryum donianum</i> (Don's Thread-moss)	SJ2038	1973	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LI-BR-49[LR], LI-BR-50[LR], LI-BR-52[LR]	NA
<i>Bryum sauteri</i> (Sauter's Thread-moss)	SJ2038	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C	NA
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ186389 (Selected from Interactive Map)	13/01/2014	David Smith	5		Vivod Moor, Berwyn.	Five hunting the moor together.	D1331/002/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ194376 (Selected from Interactive Map)	3 records, between 23/04/2015 and 29/04/2018	Susan Loose	2 Full-Grown; 1 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog;Coed Cestyll	Circling overhead; Flying overhead; In flight overhead	D1117/001/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ1939	23/07/2011	Steven Davies	1		Rhos-Pengwern	BirdTrack	D1297/025/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ1839 (Approximate)	2 records, between 23/05/2002 and 23/07/2011	Steven Davies; Mr Marco McGinty	1; 4		Y Foel;Y Foel/Ceiriog Forest	BirdTrack	D1297/025/01 , D1297/042/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ1838	23/07/2011	Steven Davies	1		Y Foel, S	BirdTrack	D1297/025/01	Bonn2, CITES-A, LBAP-C	PC
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ199378	13/07/2017	Martyn Harris	3	Field record	Llansantffraid Glyn Ceiriog Community, West side Glyn Ceiriog, Ceiriog Valley		D0969/001/05	Bonn2, CITES-A, LBAP-C	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Buteo buteo</i> (Buzzard / Bwncath)	SJ1938 (Approximate)	14/03/1981	Mr P Aley	1		Glyn		D1297/042/01	Bonn2, CITES-A, LBAP-C	PC
<i>Campylopus fragilis</i> (Brittle Swan-neck Moss)	SJ2038	1950 to 1991	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LI-BR-51[LR]	NA
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2038	3 records, between 24/01/2009 and 12/06/2010	Anon; Steven Davies			Glyn Ceiriog	Occurrence ID: NBN-GA000656- BGBW2009- 16437726- 106437528; Birdtrack:.. Activity: H	D1852/002/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C	PC
<i>Carduelis carduelis</i> (Goldfinch / Nico)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16437571- 106437624	D1852/002/01	Bern2, LBAP-A, LBAP-C	PC
<i>Carex pendula</i> (Pendulous Sedge / Hesgen Bendrom)	SJ1937	28/06/2010	Williams, D. and Swindells, S.			Aberwheel	1st for 10km sq	D1169/004/04	LI-VP-48	NA
<i>Cephaloziella divaricata</i> (Common Threadwort)	SJ2038	1972	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LI-BR-51[LR]	NA
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ194376 (Selected from Interactive Map)	2 records, between 15/04/2014 and 29/04/2018	Steve Palin; Susan Loose	1 Adult; 1 Full- Grown		Sue loose's wood above Glyn Ceiriog;Coed Cestyll		D1117/001/01	Bern2, LBAP-C	PC
<i>Certhia familiaris</i> (Treetreeper / Dringwr Bach)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	2 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C	PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ194376 (Selected from Interactive Map)	14/04/2019	Susan Loose	1 Adult	Live Sighting	Coed Cestyll, Glyn Ceiriog	Flying overhead and calling as mobbed by 2 crows	D1117/001/01	LBAP-C	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Corvus corax</i> (Raven / Cigfran)	SJ1838	31/12/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Survey: Observer data	D0062/008/01	LBAP-C	NA
<i>Corvus corax</i> (Raven / Cigfran)	SJ187380	24/05/2012	Martyn Harris	3	Field record	South-west of Tan-y-foel.		D0969/001/05	LBAP-C	PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ197379	13/11/2018	Martyn Harris	4	Field record	Llansantffraid Glyn Ceiriog Community, Valley East of Siambr-gerrig, Ceiriog Valley	"Displaying, possibly two pairs."	D0969/001/05	LBAP-C	PC
<i>Corvus corax</i> (Raven / Cigfran)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	2		Y Foel/Ceiriog Forest		D1297/042/01	LBAP-C	PC
<i>Crepis paludosa</i> (Marsh Hawk's-beard / Gwalchlys y Gors)	SJ19483768	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Several by small stream running N into Nant Lafar	D1169/004/04	LI-VP-50[LNS], LI-VP-51[LR], LI-VP-52[LR]	NA
<i>Curruca curruca</i> (Lesser Whitethroat / Llwydfron Fach)	SJ1938 (Approximate)	20/04/2020	Mr Nigel Douglas	1		Dragonwyck		D1297/039/01	LBAP-C, LBAP-D, LBAP-F	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	5 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ194376 (Selected from Interactive Map)	7 records, between 07/03/2015 and 24/04/2021	Susan Loose	5 Adult; 6 Full-Grown; 3 Full-Grown; 2 Full-Grown; 5 Full-Grown	Live Sighting	Coed Cestyll; Coed Cestyll, Glyn Ceiriog	Inspecting nest boxes; At least 2 pairs nesting, one in box and one in hole in a tree; Also checking out nestboxes; 1 carrying nesting material; 1 individual seen checking out nest boxes	D1117/001/01	Bern2, LBAP-C	PC, UA

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)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16437571- 105770967	D1852/002/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ1937	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16437532- 105771342	D1852/002/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ2038	3 records, between 24/01/2009 and 12/06/2010	Anon; Steven Davies			Glyn Ceiriog	Occurrence ID: NBN-GA000656- BGBW2009- 16437765- 105771285; Birdtrack.: Activity: FL; Birdtrack.: Activity: H	D1852/002/01 , D1297/025/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ1838	23/07/2011	Steven Davies			Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-C	PC
<i>Cyanistes caeruleus</i> (Blue Tit / Titw Tomos Las)	SJ19423762 (Selected from Interactive Map)	27/02/2021	Susan Loose	3 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C	UA
<i>Cynodontium bruntonii</i> (Brunton's Dog- tooth)	SJ2038	September 1972	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LI-BR-52[LR]	NA
<i>Dactylorhiza fuchsii</i> (Common Spotted-orchid / Tegeirian Brych)	SJ193376 (Selected from Interactive Map)	21/07/2012	Susan Loose	5 Flowering		Coed Cestyll, Glyn Ceiriog		D1117/001/01	LI-VP-48	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Dactylorhiza fuchsii</i> (Common Spotted-orchid / Tegeirian Brych)	SJ1837	28/06/2010	Williams, D. and Swindells, S.			Aberwheel	1st for 10km sq	D1169/004/04	LI-VP-48	NA
<i>Dactylorhiza fuchsii</i> (Common Spotted-orchid / Tegeirian Brych)	SJ194376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Fields	D1169/004/04	LI-VP-48	NA
<i>Dactylorhiza fuchsii</i> (Common Spotted-orchid / Tegeirian Brych)	SJ1937	16/08/2012	Williams, D. & Green, J.A.			Coed Cestyll		D1169/004/04	LI-VP-48	NA
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ195376 (Selected from Interactive Map)	21/04/2015	Susan Loose	1 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C	PC
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ196392 (GPS Reading)	17/10/2017	Gordon Plater	1		Glyn ceiriog	Woodland y foel	D1117/001/01	Bern2, LBAP-C	PC

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)	SJ1838	31/12/2010	Steven Davies	1	Reported to recorder	Y Foel, S	Survey: Observer data	D0062/008/01	Bern2, LBAP-C	NA
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2038	31/12/2010	Steven Davies	1		Glyn Ceiriog	Birdtrack:	D1297/025/01	Bern2, LBAP-C	PC
<i>Dendrocopos major</i> (Great Spotted Woodpecker / Cnocell Fraith Fwyaf)	SJ2037	06/12/2020	Recorder name withheld (obsr2032552)	1		4 Maybury Ave, Llangollen		D0346/001/01	Bern2, LBAP-C	UA
<i>Dipsacus fullonum</i> (Wild Teasel / Llysiau'r Cribau)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	LI-VP-48[LR]	NA
<i>Empetrum nigrum</i> (Crowberry agg. / Creiglusen Creiglus)	SJ1838	07/08/2018	Stead, M.O.			Y Foel		D1169/004/04	LI-VP-51[LS], LI-VP-52	NA
<i>Empetrum nigrum</i> (Crowberry agg. / Creiglusen Creiglus)	SJ1839	07/08/2018	Stead, M.O.			Y Foel		D1169/004/04	LI-VP-51[LS], LI-VP-52	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)	SJ194375	07/08/2010	Sue Loose	1 Adult	Field record	Glyn Ceiriog , west of		D1295/001/05	LBAP-E	NA
<i>Enallagma cyathigerum</i> (Common Blue Damselfly / Mursen Las Gyffredin)	SJ2037	2 records, between 21/06/2020 and 11/07/2020	Fiona Grant	+ Adult		GBW Garden		D1295/001/05	LBAP-E	NA
<i>Galium mollugo</i> subsp. <i>erectum</i> (Upright Hedge Bedstraw)	SJ18823817	17/04/2016	Denbs Group (Williams, D.)			Y Foel	large stand in steep hedgebank below Tan-y-Foel. S- facing	D1169/004/04	LI-VP-48[LS]	NA
<i>Gliophorus psittacinus</i> (Parrot Waxcap / Cap Cwyr y Parot)	SJ194376 (Selected from Interactive Map)	17/10/2009	Susan Loose	Fruiting		Coed Cestyll	To record presence from old photos	D1117/001/01	LBAP-D, LBAP-G	KC
<i>Ischnura elegans</i> (Blue-tailed Damselfly / Mursen Dinlas Gyffredin)	SJ2037	14/06/2020 to 20/06/2020	Fiona Grant	1 Adult		GBW Garden		D1295/001/05	LBAP-E	NA
<i>Jungermannia eucordifolia</i> (Cordate Flapwort)	SJ2038	1970 to 1989	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LBAP-F, LI-BR-51[LR]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Jungermannia pumila</i> (Dwarf Flapwort)	SJ2038	1970 to 1989	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LI-BR-52[LR]	NA
<i>Lamiastrum galeobdolon</i> <i>subsp. montanum</i>	SJ195376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Damp woodland	D1169/004/04	LI-VP-48[LS], LI-VP-49[LS]	NA
<i>Lamiastrum galeobdolon</i> <i>subsp. montanum</i>	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	LI-VP-48[LS], LI-VP-49[LS]	NA
<i>Lathyrus linifolius</i> (Bitter-vetch / Ytbyesen y Coed)	SJ1838	2 records, between 28/06/2010 and 17/04/2016	Williams, D. and Swindells, S.; Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LI-VP-52[LS]	NA
<i>Lathyrus linifolius</i> (Bitter-vetch / Ytbyesen y Coed)	SJ2038	17/04/2016	Denbs Group (Williams, D.)			Erw-Wladys		D1169/004/04	LI-VP-52[LS]	NA
<i>Lathyrus linifolius</i> (Bitter-vetch / Ytbyesen y Coed)	SJ195376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Damp woodland	D1169/004/04	LI-VP-52[LS]	NA
<i>Lathyrus linifolius</i> (Bitter-vetch / Ytbyesen y Coed)	SJ1937	27/05/2012	Williams, D.			Coed Cestyll	Main field	D1169/004/04	LI-VP-52[LS]	NA
<i>Lysimachia nummularia</i> (Creeping-Jenny / Siani Lusg)	SJ1937	28/06/2010	Williams, D. and Swindells, S.			Aberwheel		D1169/004/04	LBAP-G, LI-VP-48, LI-VP-49[LS]	NA
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ194376 (Selected from Interactive Map)	2 records, between 22/08/2009 and 11/08/2021	Susan Loose; Denbs Group (Williams, D.)	Flowering		Coed Cestyll	To record presence from old photos; Fields	D1117/001/01 , D1169/004/04	LBAP-A	PC, NA
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	LBAP-A	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Mentha aquatica</i> (Water Mint / Mintys y Dwr)	SJ1937	27/05/2012	Williams, D.			Coed Cestyll	Far field	D1169/004/04	LBAP-A	NA
<i>Mentha arvensis</i> x <i>aquatica</i> = <i>M. x</i> <i>verticillata</i> (Whorled Mint / Mintys Troellennog)	SJ195376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Damp woodland	D1169/004/04	LI-VP-51	NA
<i>Mentha arvensis</i> x <i>aquatica</i> = <i>M. x</i> <i>verticillata</i> (Whorled Mint / Mintys Troellennog)	SJ1937	16/08/2012	Williams, D. & Green, J.A.			Coed Cestyll	SJSJ193377. W extremity of field, by stream.	D1169/004/04	LI-VP-51	NA
<i>Motacilla alba</i> <i>yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ2037	15/05/2010	Steven Davies	1		Glyn Ceiriog, S	Birdtrack.: Activty: H	D1297/025/01	Bern2, LBAP-T	PC
<i>Motacilla alba</i> <i>yarrellii</i> (Pied Wagtail / Siglen Fraith)	SJ1838	23/07/2011	Steven Davies	1		Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-T	PC
<i>Oreopteris</i> <i>limbosperma</i> (Lemon-scented Fern / Rhedynen Bêr y Mynydd)	SJ19583752	13/08/2021	Stead, M.O.			Coed Cestyll	Several clumps on top of hedgebank on S side of steep lane	D1169/004/04	LI-VP-51[LS], LI- VP-52[LS]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Oreopteris limbosperma</i> (Lemon-scented Fern / Rhedynen Bêr y Mynydd)	SJ1937	16/08/2012	Williams, D. & Green, J.A.			Coed Cestyll	SJ1951837643. 280m. 2 clumps on bank under trees	D1169/004/04	LI-VP-51[LS], LI-VP-52[LS]	NA
<i>Papaver dubium</i> (Long Smooth-headed Poppy / Pabi Hirben)	SJ1937	28/06/2010	Williams, D. and Swindells, S.			Aberwheel	1st for 10km sq. Recorded as 'Papaver dubium agg.'	D1169/004/04	GBNNSIP, LI-VP-52	NA
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ19433766 (Selected from Interactive Map)	15/04/2014	Susan Loose	4 Full-Grown		Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ194376 (Selected from Interactive Map)	4 records, between 23/04/2015 and 24/04/2021	Susan Loose	1 Full-Grown; 2 Full-Grown	Live Sighting	Coed Cestyll, Glyn Ceiriog; Coed Cestyll		D1117/001/01	Bern2, LBAP-C	PC, UA
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ1937	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437532-106437745	D1852/002/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2038	2 records, between 24/01/2009 and 15/05/2010	Anon; Steven Davies			Glyn Ceiriog	Occurrence ID: NBN-GA000656-BGBW2009-16437765-106437729; Birdtrack:.. Activity: FF	D1852/002/01 , D1297/025/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ2037	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656-BGBW2009-16437571-106437625	D1852/002/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ1838	23/07/2011	Steven Davies	1		Y Foel, S	BirdTrack	D1297/025/01	Bern2, LBAP-C	PC
<i>Parus major</i> (Great Tit / Titw Mawr)	SJ194375	29/04/2023	Susan Loose	2 Full-Grown		Coed Cestyll Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C	UA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Pellia neesiana</i> (Nees' Pellia)	SJ2038	07/04/2015	Shanklin, J.D.			-Withheld-	-Withheld-	D1747/001/03	LBAP-C	NA
<i>Philonotis calcarea</i> (Thick-nerved Apple-moss)	SJ2038	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LBAP-F, LI-BR-48[LR], LI-BR-49[LR], LI-BR-51[LR]	NA
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ2037 (Approximate)	25/06/2002	Marco McGinty	1		Glyn Ceiriog; Ceiriog Valley		D0061/007/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ194376 (Selected from Interactive Map)	5 records, between 23/04/2015 and 24/04/2021	Susan Loose	2 Full-Grown; 2; 1	Auditory record	Coed Cestyll, Glyn Ceiriog; Coed Cestyll	Seen and heard; Warblers seen but distinguished by calls; Also seen	D1117/001/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ1838	09/06/2011	Neil Hughes	3	Reported to recorder	Y Foel, S	Activity: FF. Survey: Observer data	D0062/008/01	LBAP-C	NA
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ2038 (Approximate)	3 records, between 15/05/2010 and 17/03/2020	Steven Davies; Mr Nigel Douglas	1		Glyn Ceiriog; Ceiriog Terrace	Birdtrack:.. Activity: S; First record of the year	D1297/025/01 , D1297/039/01	LBAP-C	PC
<i>Phylloscopus collybita</i> (Chiffchaff / Siff-Siaff)	SJ1839 (Approximate)	23/05/2002	Mr Marco McGinty	1		Y Foel/Ceiriog Forest		D1297/042/01	LBAP-C	PC
<i>Pohlia lutescens</i> (Yellow Thread-moss)	SJ2038	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LBAP-F	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Polypodium vulgare</i> x <i>interjectum</i> = <i>P. x mantoniae</i> (Polypody)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys	Epiphyte	D1169/004/04	LBAP-G, LI-VP-49[LR]	NA
<i>Polystichum aculeatum</i> (Hard Shield-fern / Gwrychredynen Galed)	SJ2038	3 records, between 28/06/2010 and 17/04/2016	Jonathan Shanklin; Williams, D. and Swindells, S.; Denbs Group (Williams, D.)			Erw-Wladys		D1169/004/04	LI-VP-48, LI-VP-49[LS]	NA
<i>Polystichum aculeatum</i> (Hard Shield-fern / Gwrychredynen Galed)	SJ1837	28/06/2010	Williams, D. and Swindells, S.			Aberwheel	1st for 10km sq	D1169/004/04	LI-VP-48, LI-VP-49[LS]	NA
<i>Polystichum aculeatum</i> (Hard Shield-fern / Gwrychredynen Galed)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LI-VP-48, LI-VP-49[LS]	NA
<i>Polystichum setiferum</i> (Soft Shield-fern / Gwrychredynen Feddal)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	LI-VP-48	NA
<i>Polystichum setiferum</i> (Soft Shield-fern / Gwrychredynen Feddal)	SJ18823817	17/04/2016	Denbs Group (Williams, D.)			Y Foel	verge near Tan-y-Foel	D1169/004/04	LI-VP-48	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Polystichum setiferum</i> (Soft Shield-fern / Gwrychredynen Feddal)	SJ195376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Damp woodland	D1169/004/04	LI-VP-48	NA
<i>Potamogeton polygonifolius</i> (Bog Pondweed / Dyfrllys y Gors)	SJ1838	07/08/2018	Stead, M.O.			Y Foel		D1169/004/04	LI-VP-51[LS]	NA
<i>Prunus padus</i> (Bird Cherry / Coeden Geirios yr Adar)	SJ195376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Damp woodland	D1169/004/04	LBAP-G, LI-VP-49[LS]	NA
<i>Pyrrhosoma nymphula</i> (Large Red Damselfly / Mursen Fawr Goch)	SJ2037	3 records, between 03/05/2020 and 06/06/2020	Rachel Byron	+ Adult		GBW Garden		D1295/001/05	LBAP-E	NA
<i>Ranunculus auricomus</i> (Goldilocks Buttercup / Blodyn-Ymenyn Peneuraid)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	LI-VP-48[LR], LI-VP-49[LS], LI-VP-52[LS]	NA
<i>Ranunculus hederaceus</i> (Ivy-leaved Crowfoot / Crafanc-y-Frân Dail Eiddew)	SJ194376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Fields	D1169/004/04	LI-VP-51[LS]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Rhinanthus minor</i> (Yellow-rattle / Cribell Felen)	SJ1838	06/10/2016	Stead, M.O.			Y Foel		D1169/004/04	LBAP-A	NA
<i>Rhinanthus minor</i> (Yellow-rattle / Cribell Felen)	SJ194376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Fields	D1169/004/04	LBAP-A	NA
<i>Rhinanthus minor</i> (Yellow-rattle / Cribell Felen)	SJ19513873	24/05/2020	Knight, Tom			Y Foel	Single plant on verge.	D1169/004/04	LBAP-A	NA
<i>Rhinanthus minor</i> (Yellow-rattle / Cribell Felen)	SJ1937	27/05/2012	Williams, D.			Coed Cestyll	Main field	D1169/004/04	LBAP-A	NA
<i>Rhizomnium</i> <i>pseudopunctatum</i> (Felted Thyme- moss)	SJ2038	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C, LI-BR- 51[LR], LI-BR- 52[LR]	NA
<i>Salix aurita</i> (Eared Willow / Helygen Glustiog)	SJ1937	27/05/2012	Williams, D.			Coed Cestyll	Stream	D1169/004/04	LI-VP-51	NA
<i>Salix cinerea</i> <i>subsp. oleifolia</i> (Rusty Willow)	SJ1838	06/10/2016	Stead, M.O.			Y Foel		D1169/004/04	LI-VP-52	NA
<i>Salix cinerea</i> x <i>aurita</i> = <i>S. x</i> <i>multinervis</i>	SJ1937	16/08/2012	Green, J.A.			Coed Cestyll		D1169/004/04	LI-VP-51	NA
<i>Salix cinerea</i> x <i>aurita</i> = <i>S. x</i> <i>multinervis</i>	SJ194376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Fields	D1169/004/04	LI-VP-51	NA
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ19403918	08/04/2010	David Smith	1 male, 1 female			Pair in gorse/heath. BTO code: SC	D1331/002/01	Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G	PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ192390 (Selected from Interactive Map)	17/01/2013	David Smith	2		Vivod Moor, Berwyn.	Pair present.	D1331/002/01	Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G	PC
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ1838	2 records, between 15/05/2010 and 23/07/2011	Steven Davies	1	Reported to recorder	Y Foel, S	Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G	NA, PC
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ1939	23/07/2011	Steven Davies	1		Rhos-Pengwern	BirdTrack	D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G	PC
<i>Saxicola rubicola</i> (Stonechat / Clochdar y Cerrig)	SJ1839	23/07/2011	Steven Davies	1		Y Foel	BirdTrack	D1297/025/01	Bern2, LBAP-A, LBAP-C, LBAP-D, LBAP-F, LBAP-G	PC
<i>Scapania nemorea</i> (Grove Earwort)	SJ2038	1950 to 1989	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LI-BR-51[LR]	NA
<i>Sciuro-hypnum populeum</i> (Matted Feather- moss)	SJ2038	1950 to 1988	Hill, M.O.			-Withheld-	-Withheld-	D1075/001/06	LBAP-C	NA
<i>Scrophularia auriculata</i> (Water Figwort / Gwrnerth y Dwr)	SJ193377	27/05/2012	Williams, D.			Coed Cestyll	Far field. 1st for SJ13. Along side of stream at bottom of field	D1169/004/04	LI-VP-48[LR]	NA
<i>Senecio sylvaticus</i> (Heath Groundsel / Creulys y Rhos)	SJ1937	28/06/2010	Williams, D. and Swindells, S.			Aberwheel	1st for 10km sq	D1169/004/04	LI-VP-51[LS]	NA
<i>Senecio sylvaticus</i> (Heath Groundsel / Creulys y Rhos)	SJ19263866	05/07/2020	Knight, Tom			Y Foel	Occasional on verge.	D1169/004/04	LI-VP-51[LS]	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ195385	17/09/1997	Emily Meilleur			Cefn Uchaf		D0229/002/01	Bern2, LBAP-C	PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ194376 (Selected from Interactive Map)	3 records, between 17/08/2008 and 16/02/2019	Susan Loose	1 Full-Grown; 2 Full-Grown	Live Sighting	Coed Cestyll	To record presence from old photos	D1117/001/01	Bern2, LBAP-C	PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ1937	24/01/2009 to 25/01/2009	Anon				Occurrence ID: NBN-GA000656- BGBW2009- 16437532- 106734548	D1852/002/01	Bern2, LBAP-C	PC
<i>Sitta europaea</i> (Nuthatch / Delor y Cnau)	SJ1838	3 records, between 31/12/2010 and 23/07/2011	Steven Davies	1; 3	Reported to recorder	Y Foel, S	Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ194376 (Selected from Interactive Map)	2 records, between 15/04/2017 and 14/04/2019	Susan Loose	1 Male; 1 Male; 1 Female	Live Sighting	Coed Cestyll; Coed Cestyll, Glyn Ceiriog	Male and female coming down to drink at the spring together	D1117/001/01	Bern2, LBAP-C	PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ1838	2 records, between 15/05/2010 and 23/07/2011	Steven Davies	1; 2	Reported to recorder	Y Foel, S	Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	Bern2, LBAP-C	NA, PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ19433763 (Selected from Interactive Map)	24/04/2021	Susan Loose	1 Male; 1 Female	Live Sighting	Coed Cestyll, Glyn Ceiriog		D1117/001/01	Bern2, LBAP-C	PC
<i>Spinus spinus</i> (Siskin / Pila Gwyrdd)	SJ2038 (Approximate)	28/02/2020	Mr Nigel Douglas	150		Ceiriog Terrace	Large noisy flock flying around the village, settling in trees	D1297/039/01	Bern2, LBAP-C	PC
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ194376 (Selected from Interactive Map)	29/04/2018	Susan Loose	1 Male		Coed Cestyll		D1117/001/01	LBAP-C	PC
<i>Sylvia atricapilla</i> (Blackcap / Telor Penddu)	SJ1838	3 records, between 15/05/2010 and 23/07/2011	Neil Hughes; Steven Davies	3; 1; 2	Reported to recorder	Y Foel, S	Activity: FF. Survey: Observer data; Activity: H. Survey: Observer data; BirdTrack	D0062/008/01 , D1297/025/01	LBAP-C	NA, PC

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Sympetrum danae</i> (Black Darter / Gwäell Ddu)	SJ2037	26/07/2020 to 01/08/2020	Fiona Grant	1 Adult		GBW Garden		D1295/001/05	LBAP-E	NA
<i>Tanacetum parthenium</i> (Feverfew / Y Wermod Wen)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	GBNNSIP, LI-VP-48	NA
<i>Tanacetum parthenium</i> (Feverfew / Y Wermod Wen)	SJ194376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Fields	D1169/004/04	GBNNSIP, LI-VP-48	NA
<i>Tanacetum vulgare</i> (Tansy / Ystrewlys)	SJ1937	16/08/2012	Williams, D. & Green, J.A.			Coed Cestyll		D1169/004/04	LI-VP-48[LS]	NA
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	LBAP-A, LBAP-C, LBAP-E	NA
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ1838	2 records, between 17/04/2016 and 06/10/2016	Stead, M.O.; Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LBAP-A, LBAP-C, LBAP-E	NA
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ195376	11/08/2021	Denbs Group (Williams, D.)			Coed Cestyll	Damp woodland	D1169/004/04	LBAP-A, LBAP-C, LBAP-E	NA
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ1839	07/08/2018	Stead, M.O.			Y Foel		D1169/004/04	LBAP-A, LBAP-C, LBAP-E	NA
<i>Ulex gallii</i> (Western Gorse / Eithinen Fân)	SJ1937	16/08/2012	Williams, D. & Green, J.A.			Coed Cestyll		D1169/004/04	LBAP-A, LBAP-C, LBAP-E	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Umbilicus rupestris</i> (Navelwort / Deilen Gron)	SJ2038	2 records, between 07/04/2015 and 17/04/2016	Jonathan Shanklin; Denbs Group (Williams, D.)			Erw-Wladys		D1169/004/04	LI-VP-51	NA
<i>Umbilicus rupestris</i> (Navelwort / Deilen Gron)	SJ1937	28/06/2010	Williams, D. and Swindells, S.			Aberwheel		D1169/004/04	LI-VP-51	NA
<i>Umbilicus rupestris</i> (Navelwort / Deilen Gron)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	LI-VP-51	NA
<i>Umbilicus rupestris</i> (Navelwort / Deilen Gron)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	LI-VP-51	NA
<i>Vaccinium oxycoccos</i> (Cranberry / Llygaeren)	SJ1937	16/08/2012	Williams, D. & Green, J.A.			Coed Cestyll		D1169/004/04	LI-VP-51, LI-VP-52[LR]	NA
<i>Vinca minor</i> (Lesser Periwinkle / Perfagl Fach)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	GBNNSIP, INNS-W, LBAP-G, LI-VP-49[LS], LI-VP-51	NA
<i>Viola palustris</i> (Marsh Violet / Fioled y Gors)	SJ1838	07/08/2018	Stead, M.O.			Y Foel		D1169/004/04	LI-VP-51	NA

Designation List - INNS										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cotoneaster horizontalis</i> (Wall Cotoneaster / Cotoneaster Asgwrn Pysgodyn)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	GBNNSIP, INNS, INNS-W, WCA9	NA
<i>Crocasmia pottsii</i> x <i>aurea</i> = <i>C. x crocosmiiflora</i> (Montbretia / Crib-y-Ceiliog)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	GBNNSIP, INNS, INNS-W, WCA9	NA
<i>Fallopia japonica</i> (Japanese Knotweed / Clymog Japan)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	GBNNSIP, INNS, INNS-W, WCA9	NA
<i>Impatiens glandulifera</i> (Himalayan Balsam / Jac y Neidiwr)	SJ183380 (Selected from Interactive Map)	11/08/2021	Susan Loose	~20 Flowering		Above Glyn Ceiriog on the road verge		D1330/001/01	GBNNSIP, INNS, INNS-ias, INNS-W, WCA9	PC
<i>Oncorhynchus mykiss</i> (Rainbow Trout / Brithyll Seithliw)	SJ188379	3 records, between 1973 and February 1977	Anon			Llangollen, 2.5mile S; Llangollen, 2.5m S of; Llangollen, S of	Occurrence ID: 12003948; Occurrence ID: 12045858; Occurrence ID: 12045861	D1089/001/03	GBNNSIP, INNS, INNS-W	NA
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ1937	28/06/2010	Williams, D. and Swindells, S.			Aberwheel		D1169/004/04	GBNNSIP, INNS, INNS-W	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	GBNNSIP, INNS, INNS-W	NA
<i>Sedum album</i> (White Stonecrop / Briweg Wen)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	GBNNSIP, INNS	NA

Designation List - INNS-W										
Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Cotoneaster horizontalis</i> (Wall Cotoneaster / Cotoneaster Asgwrn Pysgodyn)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	GBNNSIP, INNS, INNS-W, WCA9	NA
<i>Crocasmia pottsii</i> x <i>aurea</i> = <i>C. x crocosmiiflora</i> (Montbretia / Crib-y-Ceiliog)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	GBNNSIP, INNS, INNS-W, WCA9	NA
<i>Fallopia japonica</i> (Japanese Knotweed / Clymog Japan)	SJ2037	16/05/2014	Stead, M.O.			Glyn Ceiriog		D1169/004/04	GBNNSIP, INNS, INNS-W, WCA9	NA
<i>Impatiens glandulifera</i> (Himalayan Balsam / Jac y Neidiwr)	SJ183380 (Selected from Interactive Map)	11/08/2021	Susan Loose	~20 Flowering		Above Glyn Ceiriog on the road verge		D1330/001/01	GBNNSIP, INNS, INNS-IAS, INNS-W, WCA9	PC
<i>Oncorhynchus mykiss</i> (Rainbow Trout / Brithyll Seithliw)	SJ188379	3 records, between 1973 and February 1977	Anon			Llangollen, 2.5mile S; Llangollen, 2.5m S of; Llangollen, S of	Occurrence ID: 12003948; Occurrence ID: 12045858; Occurrence ID: 12045861	D1089/001/03	GBNNSIP, INNS, INNS-W	NA
<i>Picea sitchensis</i> (Sitka Spruce / Sbrwsen Sitca)	SJ1838	2 records, between 17/04/2016 and 06/10/2016	Stead, M.O.; Denbs Group (Williams, D.)			Y Foel		D1169/004/04	GBNNSIP, INNS-W	NA
<i>Picea sitchensis</i> (Sitka Spruce / Sbrwsen Sitca)	SJ2037	12/05/2015	Stead, M.O.			Glyn Ceiriog		D1169/004/04	GBNNSIP, INNS-W	NA

Species Name	Grid Reference	Date	Recorder(s)	Abundance	Record/Sample Type	Site Name	Notes	Dataset ID	Lists	V
<i>Picea sitchensis</i> (Sitka Spruce / Sbriwsen Sitca)	SJ2038	17/04/2016	Denbs Group (Williams, D.)			Erw-Wladys		D1169/004/04	GBNNSIP, INNS-W	NA
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ1937	28/06/2010	Williams, D. and Swindells, S.			Aberwheel		D1169/004/04	GBNNSIP, INNS, INNS-W	NA
<i>Prunus laurocerasus</i> (Cherry Laurel / Coeden Lawrgeirios)	SJ2038	07/04/2015	Jonathan Shanklin			Erw-Wladys		D1169/004/04	GBNNSIP, INNS, INNS-W	NA
<i>Sciurus carolinensis</i> (Grey Squirrel / Gwiwer Lwyd)	SJ195376 (Selected from Interactive Map)	21/04/2015	Susan Loose	1 Adult		Coed Cestyll, Glyn Ceiriog		D1117/001/01	GBNNSIP, INNS- IAS, INNS-W, WCA9	PC
<i>Tsuga heterophylla</i> (Western Hemlock-spruce / Sbriwsen-Hemlog y Gorllewin)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	GBNNSIP, INNS-W	NA
<i>Vinca minor</i> (Lesser Periwinkle / Perfagl Fach)	SJ1838	17/04/2016	Denbs Group (Williams, D.)			Y Foel		D1169/004/04	GBNNSIP, INNS- W, LBAP-G, LI- VP-49[LS], LI-VP- 51	NA

Sites - 13 records	
Sites of Special Scientific Interest intersecting 1000m buffer	Berwyn (1056) (592m)
Special Areas of Conservation intersecting 1000m buffer	Berwyn a Mynyddoedd De Clwyd / Berwyn and South Clwyd Mountains (UK0012926) (592m)
Special Protection Area intersecting 1000m buffer	Berwyn (UK9013111) (592m)
Areas of Outstanding Natural Beauty intersecting 1000m buffer	Bryniau Clwyd a Dyffryn Dyfrdwy/Clwydian Range and Dee Valley (592m)
Wildlife Sites intersecting 1000m buffer	Nant Aber Las (Wrexham W104) (862m), Nant Y Dramwys (Wrexham W102) (609m), Glyn Ceiriog Slate Mine (Wrexham W243) (584m), Cefn Uchaf (Wrexham W103) (86m), Coed Nant Lafar (Wrexham W106) (590m), Coed Pistyll y Garth (Wrexham W250) (544m)
Regionally Important Geodiversity Sites intersecting 1000m buffer	Nant Lafar (692m)
B-Lines intersecting 1000m buffer	B-Lines, Cymru (0m)
Important Invertebrate Areas intersecting 1000m buffer	North East Wales (27m)

Sites of Special Scientific Interest		
Site Code	Site Name	Link
1056	Berwyn	More Information

Special Areas of Conservation		
Site Code	Site Name	Link
UK0012926	Berwyn a Mynyddoedd De Clwyd / Berwyn and South Clwyd Mountains	More Information

Special Protection Area		
Site Code	Site Name	Link
UK9013111	Berwyn	More Information

Wildlife Sites		
Site Code	Site Name	Link
Wrexham W104	Nant Aber Las	More Information
Wrexham W102	Nant Y Dramwys	More Information
Wrexham W243	Glyn Ceiriog Slate Mine	More Information
Wrexham W103	Cefn Uchaf	More Information
Wrexham W106	Coed Nant Lafar	More Information

Site Code	Site Name	Link
Wrexham W250	Coed Pistyll y Garth	More Information

Regionally Important Geodiversity Sites		
Site Code	Site Name	Link
	Nant Lafar	More Information

B-Lines		
Site Code	Site Name	Link
	B-Lines, Cymru	More Information

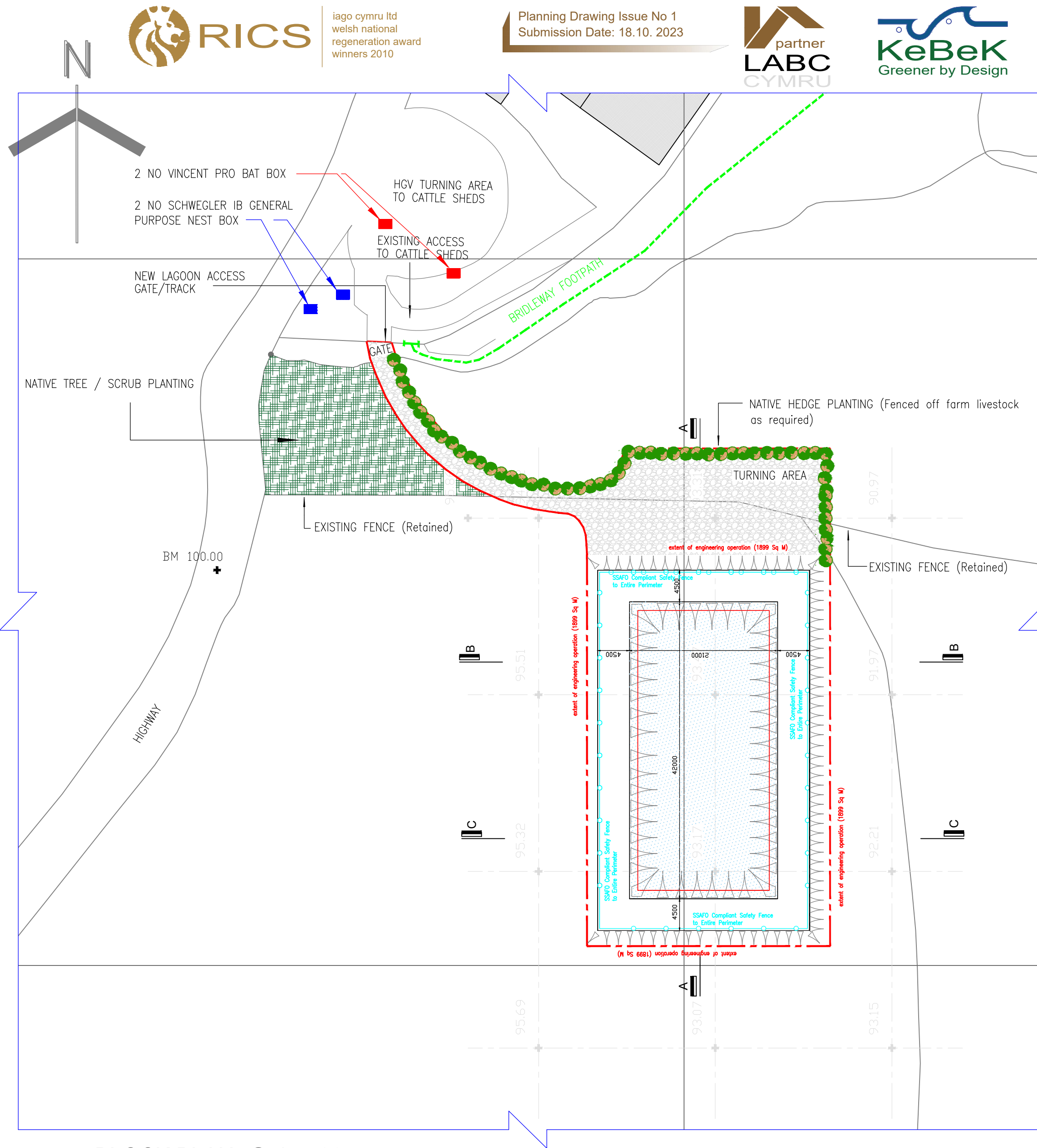
Important Invertebrate Areas		
Site Code	Site Name	Link
	North East Wales	More Information

Ancient Woodland				
Habitat	Distance	Area	Coverage	At Search Location
Ancient Semi Natural Woodland	591m - 711m	9.178ha	2.923%	No
Plantation on Ancient Woodland Site	533m - 830m	1.498ha	0.477%	No
Restored Ancient Woodland Site	756m - 880m	0.775ha	0.247%	No

Phase 1 Habitat Survey				
Habitat	Distance	Area	Coverage	At Search Location
B.4 - Improved Grassland	0m - 991m	183.6ha	58.465%	Yes
D.1.1 - Acid Dry Dwarf Shrub Heath	592m	41.633ha	13.258%	No
A.1.2.2 - Plantation Coniferous Woodland	206m - 990m	26.331ha	8.385%	No
A.1.1.1 - Semi-natural Broad-leaved Woodland	387m - 976m	15.126ha	4.817%	No
B.1.2 - Semi-improved Acid Grassland	403m - 694m	9.972ha	3.175%	No
C.1.1 - Continuous Bracken	411m - 908m	9.455ha	3.011%	No
A.2.1 - Dense/Continuous Scrub	86m - 933m	7.675ha	2.444%	No
B.2.2 - Semi-improved Neutral Grassland	329m - 876m	4.389ha	1.398%	No
A.1.1.2 - Plantation Broad-leaved Woodland	788m - 883m	1.4ha	0.446%	No
J.1.5 - Gardens	752m - 993m	0.952ha	0.303%	No
J.3.6 - Buildings	828m - 887m	0.948ha	0.302%	No
C.3.1 - Tall Ruderal Other	824m	0.62ha	0.197%	No
A.1.3.2 - Plantation Mixed Woodland	757m	0.609ha	0.194%	No
J.4 - Bare Ground	433m - 712m	0.499ha	0.159%	No
G.1 - Standing Water	515m - 693m	0.427ha	0.136%	No

- PUBLIC VERSION -

10 APPENDIX 3 – COPY OF IAGO Cymru Ltd PLAN WITH NBB MEASURES



SITE LOCATION PLAN - 1 : 2500 Scale
PLAN LLEOLIAD (Cyfeirnod Grid SJ 19204 38339)

Ordnance Survey Copyright Licenced to IAGO Cymru Ltd
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BLOCK PLAN @ 1 : 500

 Site Boundary / Curtilage
 Land in Ownership / Rented

NODIADAU/NOTES

MAE'R LLUNIAD HWN WEDI EI WNEUD AR GYFRIFIADUR, NI DDYLID GYWIRO GYDA LLAW. (AutoCAD LT / Revit 2021).

THIS IS A CAD PRODUCED DRAWING, AND SHOULD NOT BE AMENDED BY HAND. (AutoCAD LT / Revit 2021).

EARTH BANK SLURRY STORES AND TANKS

Any alteration works to an existing earth bank slurry store, or a replacement earth bank slurry store will be expected to meet the requirements of The Water Resources (Control of Pollution) (Silage, Slurry and Agricultural Fuel Oil) (England) Regulations 2010 (as amended 2013). Commonly referred to as SSAFO and apply in England. Also (Control of Agricultural Pollution) (Wales) Regulations 2021

The works contractor must be fully conversant with the regulations, and will provide written confirmation that the design, construction, and installation, will meet the legal requirements.

Any works within a Nitrate Vulnerable Zone (NVZ) then there are rules to follow concerning slurry storage capacity. See Defra guidance.

Ground Water Protection - no system to be located within a groundwater Source Protection Zone 1 or within 50 meters of a borehole, well, or spring used to supply drinking water.

SUITABILITY OF EARTH BANK STORES

Soils- where the soils are suitable (impermeable and stable), they are appropriate for storing slurry or semi-solid manure, or as a series of tanks or lagoons to settle and store dirty water.

To be suitable they must have a permeability of 0.000001 mm per second or less, following compaction if necessary. Impermeable soil must be present to a depth of at least one meter below the bottom of the store.

Soils with a clay content of between 20 - 30 per cent are generally ideal and produce stable embankments. Lower clay content may not meet the required permeability, whilst a higher one should be suitable for the base, but may be difficult to form into a stable embankment and could tend to shrink and crack on drying. The suitability of the material should be confirmed by analysis in a soil laboratory, and preferably verified by a civil engineer. Materials that is intended for use in-situ without any re-compaction need only be tested for permeability and depth.

SOIL TESTING

Initial soil tests to be taken from at least 5 locations to identify any variability in clay content and depth of impermeable soil. Where there is little variability in clay content, soils from only one sample location needs to be sent for detailed testing, otherwise send a range of samples. They need to be tested in an approved soils' laboratory to show whether the required level of impermeability can be achieved. This involves the direct measurement of soil permeability as well as other soil characteristics. Testing should meet BS 1377 (methods of tests for soils for civil engineering purposes)

Where the in-situ soils are not fully suitable, then import appropriate material, or use an impermeable synthetic liner.

SITE SELECTION

Sites in a flood plain or with a high water table to be avoided, including ground that has been previously made up or disturbed.

- Trees, scrub, roots, etc need to be removed
- Relocate any land drains at least 10 meters away from the outside of the embankment, and carefully back-fill the trench with impermeable material.

CONTROL OF AGRICULTURAL POLLUTION)
(WALES) REGULATIONS 2021

The key aspects of the regulations are:

Notify NRW about any new, substantially enlarged or substantially reconstructed system at least 14 days before construction begins.

- The notification must include the type of structure and where it is to be used. Request details of the proposed design and construction, and once an agreed proposal has been constructed forward a completed notification form before using the new facility.
- The structure(s) must be impermeable. Soil permeability to be confirmed by a qualified civil engineer or soil scientist.
- No part of the system can be within 10 meters of inland freshwaters or coastal waters that slurry could enter.

Note that 'inland water' includes any stream, ditch or land drain, even if it flows for only part of the year.

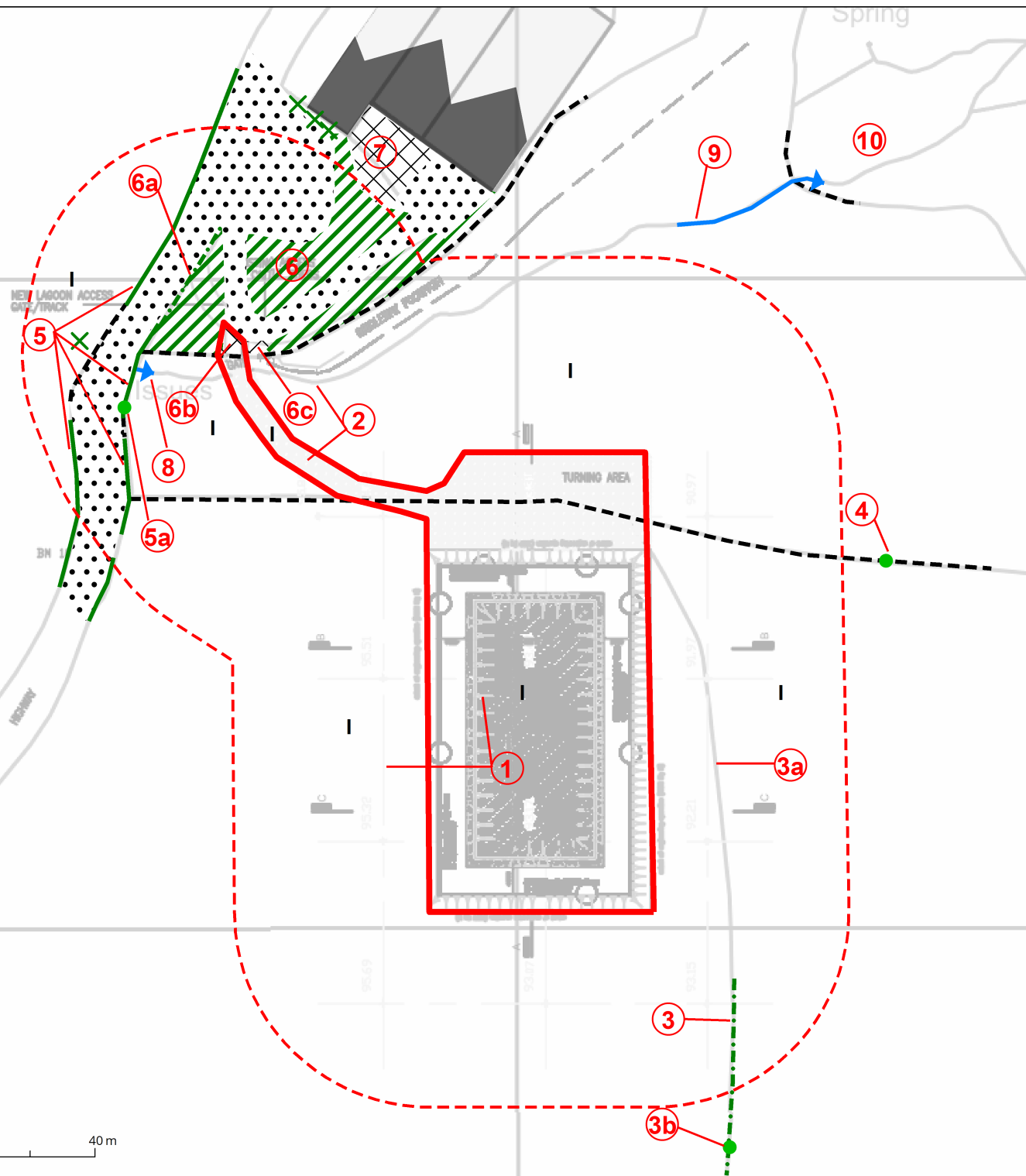
- Where the store has a gravity-fed outlet or connection to another store, it must be fitted with two lockable valves in series, unless the receiving store is larger or at the same height as the outlet store.
- Each valve must be capable of completely shutting off the flow of slurry from the store. The design and positioning of the valves should take into account the possibility of a single piece of debris obstructing both valves. The space between the valves must be at least one meter.
- The valves must be locked shut when not in use. They must only be used under close supervision and never left unattended while open or partly open
- All parts of the system must comply with the regulations whenever it is used. Proper maintenance is therefore essential, i.e. do not allow tree growth on the embankment and repair rodent damage frequently.

SIZE OF THE STORE OR TANK

The Drawings are to be read in conjunction with the Design and Access Statement produced by KeBeK, this document identifies the maximum quantity of slurry likely to be produced and directed to this system in any continuous four month period. The store may form part of a slurry/dirty water irrigation system.

Earth bank stores have been designed to include a freeboard of 750mm
They must never be filled above this level

During reproduction Drawing may Shrink or Expand



- Broad-leaved plantation woodland
- Individual broad-leaved tree
- Hedgerow
- Defunct hedgerow
- Scattered scrub
- Improved grassland
- Building
- Hard-standing/ bare ground
- Running water
- Fence
- Other habitat
Refer to text.
- Target Note
- Proposed development site
- Wider survey site boundary
30 m buffer approx.

C538 Proposed Slurry Lagoon, Cefn Uchaf Farm, Nantyr, Glyn Ceiriog, Llangollen, Wrexham, LL20 7DF

Figure 1 - Extended Phase 1 Habitat Survey

Date: 05/02/2024

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