



Ecological Assessment Report

Former Ysgol Y Wern, Rhosllanerugog

Ref: 1054

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THIS REPORT REPRESENTS AN INITIAL ECOLOGICAL ASSESSMENT OF THE SITE. FURTHER SURVEYS, AS DESCRIBED IN THE CONCLUSIONS SECTION, MAY NEED TO BE IMPLEMENTED PRIOR TO THE SUBMISSION OF A PLANNING APPLICATION.

ECOLOGICAL ISSUES ARE A MATERIAL CONSIDERATION IN DETERMINING PLANNING APPLICATIONS AND ALL RELEVANT SURVEYS MUST BE COMPLETED PRIOR TO APPLYING FOR PLANNING PERMISSION.

PLEASE NOTE THAT WHILST EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE CONTENT OF THIS REPORT IS ACCURATE THE SURVEY REPRESENTS ONLY A SNAPSHOT IN TIME AND THE ECOLOGICAL ISSUES ON SITE MAY CHANGE. THE ADDITIONAL SURVEY WORKS RECOMMENDED IN THIS REPORT ARE WHAT IS THOUGHT TO BE REQUIRED IN THE OPINION OF THE SURVEYOR, THE LOCAL PLANNING AUTHORITY OR THE COUNTRYSIDE COUNCIL FOR WALES MAY IN SOME CASES REQUEST ADDITIONAL INFORMATION NOT OUTLINED IN THIS REPORT.

1.0 INTRODUCTION

- 1.1 J W Ecological Ltd. were commissioned in February 2012 to undertake a baseline ecological assessment of the former Ysgol y Llys, Hill Street, Rhosllanerugog, Wrexham (SJ 29273 46198). See site location plan D/JWE/1054/001 (Appendix 1).
- 1.2 The aims of the ecological assessment were to:
- Assess and describe the Valuable Ecological Components (VECs) of the proposed development site and all land within 250 metres (referred to as “the wider survey area”).
 - Assess the likely ecological impacts of the development.
 - Identify further survey and mitigation requirements
- 1.3 To meet the aims of the ecological assessment the following actions were undertaken:
- Desktop study of all land within 500 metres of the development site
 - Phase one habitat survey of development site and adjacent land
- 1.4 The sites ecological value was assessed in context with current UK planning and legislative policy, including:
- Protected sites (statutory and non-statutory)
 - Statutorily protected species
 - UK and local Biodiversity Action Plan (BAP) species
 - Species and habitats of local concern
 - Local wildlife strategies
- 1.5 Prior to any survey work a health and safety risk assessment of the site was undertaken. Risk assessments are undertaken on a site by site basis in order to identify potential risks with the aim to reduce these as far as is practicable.

2.0 SITE LOCATION AND DESCRIPTION

- 2.1 The site is located on the southern side of Hill Street, Rhosllanerugog.
- 2.2 The survey area comprises three former school buildings, hardstanding parking and play areas and a number of areas of unmanaged grassland. A hedgerow is located on the eastern site boundary and a number of broad-leaved trees are located within the survey area.
- 2.3 The school site is bordered by residential properties and roads to all sides.

3.0 DESKTOP STUDY

- 3.1 Ecological data and records of protected species were requested/gathered from the following sources (Table 1):

Table 1: Desktop Study Sources

Consultee/Source of Information	Information Supplied
NBN Gateway	Protected species records within 500 metres of the proposed development site.
Countryside Council for Wales	CCW online protected sites register.
Cofnod	Protected species and protected sites data.
UK Biodiversity Action Plan	Identification of national priority species and habitats known to occur in the region.
Local Biodiversity Action Plan	Identification of local priority species and habitats known to occur in the area.
WCBC	Wrexham Unitary Development Plan

Protected Sites

- 3.2 The Stryt Las a'r Hafod Site of Special Scientific Interest (SSSI) and Johnstown Newt Sites Special Area of Conservation (SAC) is located approximately 460 metres east of the survey area.
- 3.3 No Wildlife Sites are located within 1 kilometre of the site boundary.

Protected Species

- 3.4 Cofnod and the National Biodiversity Network hold numerous records of Great crested Newts (*Triturus cristatus*) within the Stryt Las a'r Hafod SSSI 460 metres east of the site. The most recent record dates from 2007. Records of Pipistrelle bat (Common and Soprano), Daubentons bat, Noctule bat, Grass Snake and Water Vole also exist within the boundary of the SSSI.
- 3.5 Full details of the Cofnod record search are provided in Appendix 4.

3.6 Based on information gathered from the sources listed above and desk based assessment of the site from OS maps and aerial photographs the following protected species were taken into account during the site assessment:

- Bats (all species)
- Great crested newts (*Triturus cristatus*)
- Badgers (*Meles meles*)
- Water Voles (*Arvicola terrestris*)
- Otters (*Lutra lutra*)
- Reptiles (all species)

UK Biodiversity Action Plan (UKBAP) Priority Species

3.7 The UKBAP priority species which may potentially use the survey area, based on the results of the desktop study are:

- Mammals – Bats*, Hedgehog, Water Vole*, Otter*;
- Birds – Song Thrush, Sky Lark, Bullfinch etc.;
- Amphibians – Great Crested Newts*, Common Toad;
- Reptiles – all species*.

** These species and/or their habitats are also statutorily protected*

Local Biodiversity Action Plan (LBAP)

3.8 The Wrexham Biodiversity Action Plan (BAP) lists key local species and habitats considered to be rare or declining in the area. Some of these species and habitats may also be of national concern.

3.9 Although local BAP documents have no legal status the Local Planning Authority (LPA) and the Countryside Council for Wales will expect the listed species and habitats to be taken into account in the overall layout and landscape strategy for the development.

3.10 The species of local concern which may potentially utilise the survey area based on the results of the desktop study are:

- Birds – Song Thrush;
- Amphibians – Great Crested Newts*;
- Mammals – Lesser Horseshoe Bat*, Badger*, Otter*.

** These species and/or their habitats are also statutorily protected*

4.0 PLANNING CONTEXT

Planning Policy Wales (Edition 3, July 2010)

- 4.1 This document contains current land use planning policy for Wales. It provides the policy framework for the effective preparation of local planning authorities' development plans. This is supplemented by 21 topic based Technical Advice Notes (TANs). Procedural guidance is given in Welsh Office / National Assembly for Wales / Welsh Assembly Government circulars
- 4.2 Technical Advice Note 5 provides advice about how the land use planning system should contribute to protecting and enhancing biodiversity and geological conservation. This guidance note should be read in conjunction with *Planning Policy Wales (2002)*, in particular with Chapter 5 *Conserving and Improving the Natural Heritage and Coast* which sets out the Assembly Government's objectives for the natural heritage and the land use planning policies which support these.
- 4.3 This TAN brings together advice on sources of legislation relevant to various nature conservation topics which may be encountered by local planning authorities. Chapter 2 sets out the key principles of planning for nature conservation. Chapter 3 provides advice about the preparation and review of development plans, including the relevant statutory requirements. Chapter 4 addresses nature conservation in development control procedures. Chapter 5 deals with the conservation of internationally and nationally designated sites and habitats and also covers local sites. Chapter 6 deals with the conservation of protected and priority species.

5.0 LEGISLATIVE CONTEXT

- 5.1 This is a brief summary of the ecological legislative context in Wales. This is general advice only and does not relate specifically to the site being assessed.

Ecological Assessments

- 5.2 Ecological assessments have now become an important part of the planning process. This initial assessment is used as a means of identifying any specific interests of the site in question which are in turn used to assess suitability for protected species and to make recommendations for further survey work and mitigation.

Statutory Designated Sites

- 5.3 Sites with Statutory designations receive varying degrees of legal protection under UK law and European Directives. A number of statutory designations are used for sites of high conservation value in the UK dependent on the importance of the site at a local, regional, national and international level. These designations are:
 - Special Area of Conservation (SACs)
SACs are sites of European importance for nature conservation. These receive legal protection under the EC Habitats Directive (1992) which was incorporated into UK legislation through the Conservation (Natural Habitats, &c) Regulations 1994. In the UK all SACs are also designated as SSSIs.

- Special Protection Areas (SPAs)
SPAs are sites of European importance for birdlife as designated under the Birds Directive. As with SACs all SPAs in the UK will also be designated as SSSIs.
- Ramsar Sites
These sites are wetlands of international importance designated under the Ramsar Convention 1971. In most cases these sites are also designated as SPAs or Sites of Special Scientific Interest (SSSI) and receive legal protection in the UK through these designations.
- Sites of Special Scientific Interest (SSSI)
SSSIs are UK sites of national importance for nature conservation. These sites may be designated as a result of the habitats present or for the presence of rare species or species assemblages. SSSIs receive some legal protection through the Wildlife and Countryside Act 1981. This protection was recently extended through the Countryside and Rights of Way (CROW) Act 2000.
- National Nature Reserves (NNR)
NNRs are nationally important nature reserves designated by CCW under the Wildlife and Countryside Act 1981. These sites will either be managed by CCW or an approved body and are often designated as SSSIs.
- Local Nature Reserves (LNR)
Local Nature Reserve is a statutory designation made by local authorities under the Section 21 of the National Parks and Access to Countryside Act 1949. These sites may or may not be SSSIs.

Non-Statutory Designated Sites

- 5.4 Non-statutory sites are afforded no statutory legal protection but are in most cases recognised by local planning authorities and statutory agencies as being of local conservation value. The protection of these sites is usually afforded through Local Plan Policies (county, district and Unitary Development Plans) and these sites will in most cases be taken into account as a material consideration by the local authority when deciding planning applications. These sites are designated by the local authority (usually in consultation with the local Wildlife Trust and other agencies).

Protected Species and their Habitats

- 5.5 In the majority of cases relevant to planning applications protected species are those listed in Schedules 1, 5 and 8 of the Wildlife and Countryside Act (as amended), the Protection of Badgers Act 1992 and the Habitats & Species Regulations 2010. The extent of legal protection varies between species, as do the implications for developments where these species are to be affected.

5.6 Great Crested Newts

Great Crested Newts (*Triturus cristatus*) are protected under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 and Section 9 of the Wildlife and Countryside Act 1981 (as amended), being listed in Schedule 5 of the act. Under the legislation it is an offence to:

- Intentionally kill, take or injure a great crested newt;
- Damage, destroy or obstruct a place a great crested newt uses for breeding, resting, shelter or protection or to disturb a great crested newt in such a place.
- Possess or control a great crested newt alive or dead, or any part of them, or anything derived from them.
- Sell, offer for sale, advertise for sale or offer to buy a great crested newt, or a part of them or anything derived from them.
- Deliberately disturb or deliberately take or destroy the eggs of a great crested newt.

Offences under Section 9 carry a maximum penalty of a fine up to £5000, imprisonment for up to six months, or both, for each animal in respect of which an offence is committed.

Licenses can be issued in order to allow activities that would constitute an offence under the legislation. Licenses can be issued for specific purposes including scientific study, photography, conservation management and development.

It is important to identify the presence of great crested newts as early as possible in a development so that the legal obligations regarding this species can be observed. If surveys identify the presence of great crested newts on site a mitigation scheme must be developed in consultation with the local CCW team. This mitigation scheme must minimise direct threats to newts and compensate for any habitat loss. A licence issued by the Welsh Assembly is required before the mitigation scheme can be legally implemented. Mitigation licence applications require full Method Statements and a Reasoned Statement of Application. The method statement contains details of the proposed mitigation works whilst the Reasoned Statement must provide justification as to how the proposed development meets the requirements of the legislation.

5.7 Bats

All species of bat and their breeding sites or resting places (roosts) are protected under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 and Section 9 of the Wildlife and Countryside Act 1981 (as amended). Under the legislation it is an offence to:

- intentionally kill, injure or handle a bat;
- to possess a bat (whether live or dead)
- disturb a roosting bat;
- sell or offer a bat for sale without a licence;
- damage, destroy or obstruct access to any place used by bats for shelter, whether they are present or not.

The potential fine for each offence is £5,000. If more than one bat is involved, the fine is £5,000 per bat. An offender can also be imprisoned for up to six months.

Where bats are found to occur on a development site, and there is considered to be a reasonable possibility that a roost may be damaged or destroyed or that bats using a roost will be disturbed, a licence must be obtained from Welsh Assembly.

5.8 Badgers

Badgers (*Meles meles*) and their habitat are protected under The Protection of Badgers Act 1992 and are also included on Schedule 6 of the Wildlife and Countryside Act 1981, and Appendix III of the Bern Convention. The legislation affords badgers protection against deliberate harm or injury making it an offence to:

- wilfully kill, injure, take, possess or cruelly ill-treat a badger (or attempt to do so)
- to interfere with a sett by damaging or destroying it
- to obstruct access to, or entrance of, a badger sett
- to disturb a badger whilst it is occupying a sett

Penalties for offences include fines of up to £5000, plus up to six months imprisonment, for each illegal sett interference, badger injury or death.

Works that disturb badgers whilst they are occupying a sett are illegal without a licence. Disturbance can occur even without direct interference or damage to the sett in question. In general, the following activities are likely to require a licence:

- Use of heavy machinery or significant earth moving within 30m of a sett
- Use of lighter machinery (usually any wheeled vehicles) within 20m of a sett
- Any digging, chain saw use or scrub clearance within 10m of a sett

5.9 Reptiles

All species of British reptile are protected against intentional killing, injury or sale under the Wildlife and Countryside Act 1981 (as amended). The Sand Lizard and the Smooth Snake are afforded a higher degree of protection under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 making it an offence to:

- Intentionally kill, take or injure these species of reptile;
- Damage, destroy or obstruct a place a these species use for breeding, resting, shelter or protection or to disturb these species in such a place;
- Possess or control these species alive or dead, or any part of them, or anything derived from them;
- Sell, offer for sale, advertise for sale or offer to these species, or a part of them or anything derived from them;
- Deliberately disturb or deliberately take or destroy the eggs of these species.

The distribution of Smooth Snakes and Sand Lizards is limited to heathland habitats in Surrey, Dorset, Hampshire and Sussex. The Sand Lizard is also known to occur on sand dune habitats in Merseyside and has recently been introduced to some areas of North Wales.

Licenses can be issued in order to allow activities that would constitute an offence under the legislation. Licenses can be issued for specific purposes including scientific study, photography, conservation management and development.

In England and Wales a development license must be obtained from Natural England or the Welsh Assembly before undertaking any works that will affect Sand Lizards or Smooth Snakes or their habitat. A license is not required to carry out surveys or mitigation for other reptile species.

5.10 Otters

The Eurasian Otter is protected under Regulation 41 of The Conservation of Habitats and Species Regulations 2010 and Section 9 of the Wildlife and Countryside Act 1981 (as amended), being listed in Schedule 5 of the act. Under the legislation it is an offence to:

- Deliberately, capture, injure or kill an Otter;
- Damage, destroy or obstruct their breeding or resting places;
- Disturb otters in their breeding or resting places.

Offences under Section 9 carry a maximum penalty of a fine up to £5000, imprisonment for up to six months, or both, for each animal in respect of which an offence is committed.

There is, however, provision within the legislation to kill, take, disturb or possess otters or to use prohibited methods to kill or take under a licence in certain defined circumstances, if the issue cannot be resolved by any alternative means. Licenses can be granted for a variety of purposes, including development.

5.11 Water Vole

Water Voles and their habitats are afforded protection under Section 9 of the Wildlife & Countryside Act 1981 (as amended). Under the legislation it is an offence to:

- Intentionally kill, injure or take (capture) a water vole;
- Possess or control a live or dead water vole, or any part of a water vole or anything derived from a water vole;
- Intentionally or recklessly damage, destroy or obstruct access to any structure or place which a water vole uses for shelter or protection
- Intentionally or recklessly disturb a water vole while it is occupying a structure or place which it uses for shelter or protection;
- Sell, offer or expose for sale, or have in one's possession or transport for the purpose of sale, any live or dead water voles, or any part of a water vole or anything derived from a water vole;
- Publish any advertisement, or cause any advertisement to be published, which is likely to be understood as conveying that a person buys or sells, or intends to buy or sell, any of the above things.

Offences under Section 9 carry a maximum penalty of a fine up to £5000, imprisonment for up to six months, or both, for each animal in respect of which an offence is committed.

There is no provision under the Wildlife and Countryside Act 1981 for licences to be issued for the purpose of development

5.12 Birds

Section 1 of the Wildlife and Countryside act 1981 makes it an offence to intentionally kill, injure, handle or remove any wild bird (with the exception of some pest species), to take or damage a nest whilst it is in use or being built and to take or destroy eggs.

Species listed in Schedule 1 of the Act (see Table 1), including the Little Ringed Plover, Barn Owl and Kingfisher, are afforded an even higher level of protection. In addition to the offence of taking, damaging or destroying nests or eggs it is also an offence to disturb Schedule 1 species whilst they are building or sitting on nests.

Whilst it is not an offence to disturb non-Schedule 1 species whilst they are building or sitting on a nest an offence may occur if the bird is permanently driven away from its nesting site by prolonged disturbance which leads to the failure of eggs or the death of young.

Surveys for the presence of breeding birds are required if any nesting habitat is to be removed during the breeding season (March to August inclusive).

Invasive Plant Species

- 5.13 Under Section 14 (2) of the Wildlife and Countryside Act (1981) it is illegal to spread the invasive non-native plants Japanese Knotweed (*Fallopia japonica*), Himalayan Balsam (*Impatiens glandulifera*) and Giant Hogweed (*Heracleum mantegazzianum*). At present no requirement exists to eradicate these plants from sites where they are already established
- 5.14 Environment Agency guidance also exists for the aquatic weeds Australian swap stonecrop (*Crassula helmsii*), Floating pennywort (*Hydrocotyle ranunculoides*) and Parrot's feather (*Myriophyllum aquaticum*). Although no legal obligation exists it is considered good practice to avoid spreading these invasive plants when working in infested areas.

6.0 HABITAT SURVEY

Extended Phase One Survey Methods

- 6.1 An extended phase one habitat survey of the site was undertaken by Joseph Whittick BSc (Hons.) MIEEM on the 28th February 2012. Conditions were fair.
- 6.2 The extended phase one habitat survey is a standard method of survey widely used as the basis of ecological assessments (JNCC, 1993). The phase one survey covers the footprint of the proposed development and descriptions of the immediate surrounding area (up to 100 metres). A habitat map is prepared to show the locations and extent of habitats. Detailed descriptions of important plant communities, other valuable ecological components (e.g. protected species potential) and invasive plant species are provided as target notes.
- 6.3 The phase one habitat survey is not intended to provide a comprehensive list of species. Plant species lists have been compiled with the aim of characterising habitats in order to assess their importance for nature conservation.
- 6.4 Incidental observations of birds and mammals were also made during the phase one habitat survey.

Bat Survey Methods

- 6.5 A daytime bat survey of the school buildings was undertaken by Joseph Whittick BSc (Hons.) MIEEM on the 28th February 2012 in conjunction with the phase one survey.
- 6.6 Joseph Whittick is an experienced bat surveyor and holds a Countryside Council for Wales Scientific bat license (Licence Number 35187:OTH:CSAB:2011).
- 6.7 During the survey the site buildings were inspected on the interior and exterior for evidence of past or present use by bats and their suitability as bat roosts including:
 - droppings;
 - feeding remains (e.g. moth and butterfly wings);
 - potential roosting sites;
 - potential entrance points;
 - discolouration around entrance points;
 - absence of cobwebs in potential roosting points.

Particular attention was paid to the ridge lines and gable ends which are favoured roosting sites.

- 6.8 A high-powered torch (1,000,000 candles), close focusing binoculars and a Provision300 endoscope were used to aid in the survey.

Results

6.9 The habitat survey is illustrated on Drawing D/JWE/1054/002 (Appendix 1). Target Notes are presented in Appendix 2.

6.10 The following habitats were recorded within the survey area and adjacent land:

- Buildings
- Bare ground
- Semi-improved grassland
- Scattered broad-leaved trees
- Scattered coniferous trees
- Scattered scrub
- Hedgerows

6.11 Habitats within the proposed development site and wider survey area:

- Buildings
Three buildings are located within the school site. Building 1 is the main school building (see photograph 1, Appendix 3). This is a large single-storey brick building with a flat roof. On the interior the building has suspended tile ceilings which have collapsed in a number of locations (see photograph 2, Appendix 3). On the exterior the building has UPVC cladding along the edge of the roof. Building 2 is located to the south-east of building 1 (see photograph 3, Appendix 3). This building is single storey and of brick construction with a pitched corrugated asbestos sheet roof. The interior of the roof is boarded and there is no loft space. Building 3 is located to the east of the site (see photograph 4, Appendix 3). This building is single-storey and of timber construction with a shallow pitched felt roof. The building is in a poor state of repair with the felt roof peeling back in a number of locations and holes in the timber fascias/soffits (see photograph 5, Appendix 3).
- Bare ground
Hardstanding play areas are located to the east and west of the site (see photographs 6 and 7, Appendix 3). A car park and turning area are located to north of the site (see photograph 8, Appendix 3).
- Semi-improved grassland
Small areas of rough semi-improved grassland are located on site (see photographs 9 and 10, Appendix 3). These areas appear to have originated from lack of management of what were previously amenity grassland areas. A larger area of rough grass is located to the north-east of the survey area (see photograph 11, Appendix 3). Species within these grassland areas include Perennial rye-grass (*Lolium perenne*), Cock's-foot (*Dactylis glomerata*), Common nettle (*Urtica dioica*) and Broad-leaved dock (*Rumex obtusifolius*).
- Scattered broad-leaved trees
Scattered broad-leaved trees are located on site. These trees are predominantly located in the larger of the rough grassland areas to the east of the site (see photograph 12, Appendix 3) and in a small grouping to the south of building 2 (see photograph 13, Appendix 3). The dominant species is Ash (*Fraxinus excelsior*) with occasional Oak (*Quercus spp.*) and Holly (*Ilex aquifolium*). A small number of Sycamore (*Acer pseudoplatanus*) and Ash (*Fraxinus excelsior*) trees are also located in the hedgerow on the south-eastern site boundary (see photograph 14, Appendix 3).

- Scattered coniferous trees
A single conifer is located on the eastern site boundary.
- Scattered scrub
Scattered Bramble (*Rubus fruticosus* agg.) scrub is located in the larger of the rough grassland areas to the east of the site.
- Hedgerows
A Hawthorn (*Crataegus monogyna*) hedgerow is located on the south-eastern site boundary (see photograph 15, Appendix 3).

6.12 Extended Phase One Habitat Survey Overview/Survey Results

- Great crested newts – No ponds or other suitable amphibian breeding habitat were identified on site. The Johnstown Newt Sites SAC ponds are located approximately 580 metres east of the survey area. These ponds are the closest ponds to the survey area and are known to support populations of great crested newts. The school site is however separated from the SAC by extensive residential development and a number of roads which are likely to act as significant barriers to amphibian dispersal onto the site.

The areas of rough grass within the site, particularly the area to the north-east of the survey area, have good suitability as terrestrial habitat for amphibians.

- Bats – No evidence of bat roosting activity was identified on the interior or exterior of any of the buildings on site during the initial phase one survey. Building 1 has no loft space and the windows have been securely boarded. No entrance points were identified that would allow bats to enter the interior of the building or the area between the flat roof and the ceiling tiles. Some limited roosting potential was identified in the form of small gaps behind some of the UPVC cladding along the edge of the roof of the building.

Building 2 has no loft space and the corrugated asbestos sheet roof offers limited roosting opportunities or entrance points for bats. Potential access for bats was however identified where the roof sheets meet the eaves and at the end of the ridge of the building where there is a gap which could allow bats to access the space beneath the ridge.

Building 3 has a shallow pitched felt roof and no loft space. Roosting potential for bats was identified in the form of holes in the soffits and fascias of the building however these features are relatively low down (approximately 2 metres off the ground) which may reduce their suitability as roosting sites for bats.

No trees within or adjacent to the survey area were found to have features that could be used by roosting bats.

- Badgers – During the extended phase one survey a search was conducted of the site and all accessible land within 30 metres in order to identify any badger setts or other evidence of badger activity (e.g. footprints, latrines). No badger setts or other evidence of badger activity were found.
- Reptiles – The site contains areas of rough grassland with suitability as foraging and refuge habitat for common reptile species.
- Water Voles – No rivers, streams or ditches are located on or in close proximity to the site.
- Otters – No rivers, streams or ditches are located on or in close proximity to the site.

- Birds – Birds may nest in the trees and hedgerows on and adjacent to the site. Birds could also potentially nest in the roofs of buildings 2 and 3 and birds were noted entering the damaged soffits of building 3 during the phase one survey indicating that they are nesting, or preparing to nest, in this location.

6.13 Other Observations

No invasive plant species, eg. Japanese knotweed, were identified on site during the phase one survey.

7.0 CONCLUSIONS AND RECOMMENDATIONS

7.1 Protected Sites

The Stryt Las a'r Hafod Site of Special Scientific Interest (SSSI) and Johnstown Newt Sites Special Area of Conservation (SAC) is located approximately 460 metres east of the survey area. Given the distance of the SSSI/SAC sites from the survey area no direct impacts on these designated areas are predicted as a result of the proposed construction works on site. As the proposals involve residential development the potential does however exist for long term impacts on the SSSI/SAC as increased numbers of people living nearby may result in increased public access to these areas. Further consultation with the Countryside Council for Wales (CCW) regarding potential compensation measures may be required.

7.2 Habitats

The site comprises predominantly areas of hard standing and existing buildings with limited conservation value. The rough semi-improved grassland areas on site, particularly the area to the north-east of the survey area, have value to a variety of species and areas of this habitat should be retained wherever possible.

The majority of the trees on site are small and self seeded and therefore have only limited ecological value. The exception is the Oak tree within the grassland area to the north-east of the site and this tree should ideally be retained and protected during any site works using temporary fencing. The hedgerow on the south-eastern site boundary also has ecological value and it would be desirable to retain this feature of the site and potentially undertake new hedgerow planting around the perimeter of the site and to form the new property boundaries. New planting schemes as part of the proposals should aim to use native species of local provenance.

7.3 Great Crested Newts

No ponds or other suitable amphibian breeding habitat were identified on site. Great crested newts are known to be present in the Johnstown newt sites SAC / Stryt Las a'r Hafod SSSI ponds approximately 580 metres east of the survey area. The SSSI is separated from the survey area by a number of roads and residential development which are thought to act as significant barriers to newt dispersal onto the survey area. Whilst it is considered unlikely that great crested newts from the ponds within the SSSI/SAC would reach the site the presence of great crested newts cannot be ruled out entirely, particularly as there is suitable foraging and refuge habitat for this species within the site boundary. Given that this is the case the following method statement is proposed:

- A terrestrial survey for the presence/absence of great crested newts should be carried out prior to the start of works on site. The terrestrial survey would involve the placing of artificial refuges (carpet tiles/roofing felt) in areas of suitable habitat on site which would be checked for amphibians over a minimum of 20 days in suitable weather conditions (night time temperatures above 5°C, no more than 3 days with no rainfall). Surveys can only be undertaken between March and September, the active period for newts. Outside of this period newts are in hibernation and are unlikely to be detected during surveys.
- If great crested newts are identified on site during the survey a newt license will be required from the Welsh Assembly for the proposed works. The license will need to include detailed mitigation proposals including fencing and trapping of the site prior to the start of works.

- If no great crested newts are identified during the survey a watching brief should be implemented on site. Prior to the start of works on site a CCW licensed newt ecologist should give a toolbox talk to all site personnel highlighting the potential presence of great crested newts, how to identify the species and the appropriate course of action should a newt be found. The watching brief should be kept in force throughout the site works but particularly during initial site clearance. If a great crested newt is identified at any time all works on site should cease immediately, a CCW licensed newt ecologist should be contacted and a license should be obtained from the Welsh Assembly. Works on site will have to be delayed until the license has been obtained and the site has been fenced and trapped.

7.4 **Bats**

No evidence of roosting bats was identified on site at the time of survey however the three school buildings were all found to have features that could be used as roosting sites by these species. In all cases the roosting opportunities were limited however further dusk/dawn bat activity surveys of the school buildings between May and August are recommended in order to confirm the presence/absence of roosting bats on site. A minimum of one dusk and one dawn survey are thought to be required.

No trees suitable as roosting sites for bats were identified on or adjacent to the survey area. No bat issues are thought to exist for any tree felling/lopping.

7.5 **Badgers**

No badger setts or other evidence of badger activity were identified within 30 metres of the survey area. No implications are thought to exist for the proposals with regard to this species

7.6 **Reptiles**

The rough grassland habitats within the site have suitability as habitat for common reptile species. A reptile survey of the site should be undertaken in conjunction with the terrestrial amphibian survey outlined in 7.3. If reptiles are found to be present then a programme of mitigation/compensation will be required.

7.7 **Water Voles**

No habitat with suitability for Water Voles is located on site or within 15 metres of the site boundary. No implications are thought to exist for the proposals with regard to this species.

7.8 **Otters**

No habitat with suitability for Otters is located on site or within 15 metres of the site boundary. No implications are thought to exist for the proposals with regard to this species.

7.9 **Birds**

Birds may nest in the trees and hedgerows on and adjacent to the site. Birds could also nest in buildings 2 and 3 and evidence of probable nesting was identified in building 3 at the time of survey. Works to clear suitable nesting, or to demolish buildings with the potential to be used by nesting birds, should wherever possible be undertaken outside of the bird nesting season (the nesting season runs from March to August inclusive). If this is not possible checks should be made by an experienced bird surveyor on the morning prior to the works. If birds are found to be nesting, or if birds showing nesting behaviour are identified, the nest should not be disturbed and works should be delayed until nesting is complete and young birds have fledged.

THESE SURVEY RESULTS ARE VALID FOR UP TO 1 YEAR AFTER WHICH RE-SURVEYS ARE RECOMMENDED

8.0 REFERENCES

NATURE CONSERVANCY COUNCIL (1990) Handbook for Phase 1 habitat survey. NCC. Peterborough.

STACE, C. A. (1997) *Flora of the British Isles*, 2nd edition. Cambridge University Press

Mitchell-Jones, A.J, & McLeish, A.P. Ed. 2004. *Bat Workers Manual*

ENGLISH NATURE 2004. *Bat Mitigation Guidelines*.

FROGLIFE. 2001. *Great Crested Newt Conservation Handbook*

English Nature. 2001. *Great Crested Newt Mitigation Guidelines*.

APPENDIX 1

Drawings:

Site Location Plan - D/JWE/1054/001

Phase One Habitat Plan - D/JWE/1054/002



 = Site Location



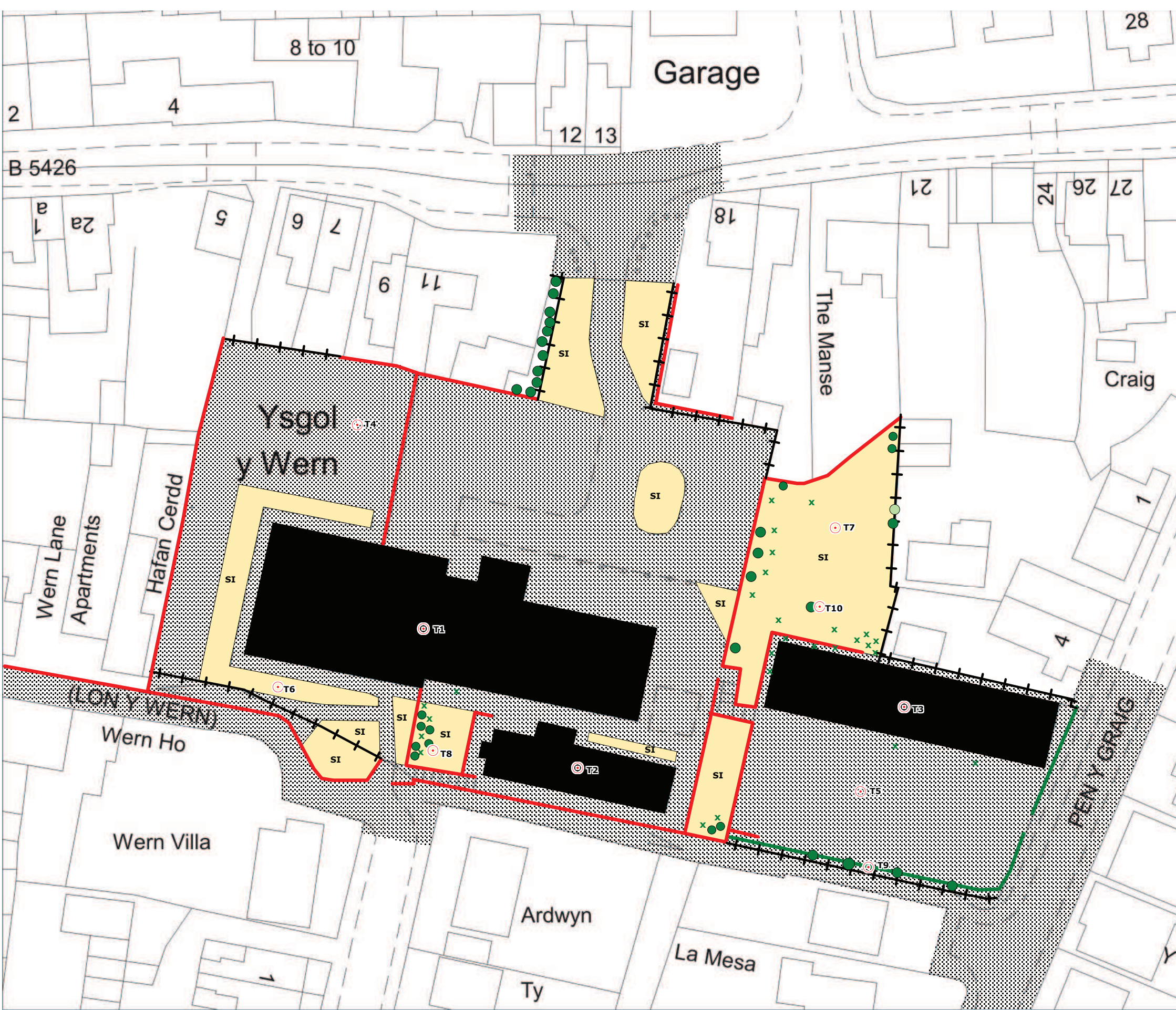
J W ECOLOGICAL LTD

TITLE: Site Location Plan

SITE: Ysgol Y Wern, Rhosllanerugog

NGR: SJ 29273 46198

DRAWING NUMBER: D/JWE/1054/001



J W ECOLOGICAL LTD

Site: Ysgol Y Wern, Rhosllanerugog

Title: Phase One Habitat Map

KEY:

- SI Semi-improved grassland
- Scattered broad-leaved trees
- Scattered coniferous trees
- Scattered scrub
- Bare ground
- Buildings

Hedgerow

Wall

Fence

Target Notes (See Appendix 2)

GRID REFERENCE:

SJ 29273 46198

SCALE:

1:1000

DRAWN BY:

JW

CHECKED BY:

JM

DATE:

02/03/12

DRAWING NUMBER:

D/JWE/1055/002

ISSUE:

A

THIS PLAN IS ISSUED BY J W ECOLOGICAL LIMITED SUBJECT TO THE
CONDITION THAT IT IS NOT COPIED EITHER IN WHOLE OR IN PART
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AUTHORISATION IS GIVEN.

APPENDIX 2

Target Notes

The target notes listed below relate to drawing number D/JWE/1054/002 (Appendix 1):

Target Note 1 (T1)

Building 1, main school building. This is a large single-storey brick building with a flat roof. On the interior the building has suspended tile ceilings which have collapsed in a number of locations. On the exterior the building has UPVC cladding along the edge of the roof.

Target Note 2 (T2)

Building 2. This building is single storey and of brick construction with a pitched corrugated asbestos sheet roof. The interior of the roof is boarded and there is no loft space.

Target Note 3 (T3)

Building 3. This building is single-storey and of timber construction with a shallow pitched felt roof. The building is in a poor state of repair with the felt roof peeling back in a number of locations and holes in the timber fascias/soffits.

Target Note 4 (T4)

Hardstanding play area located to the west of the site.

Target Note 5 (T5)

Hardstanding play area located to the west of the site.

Target Note 6 (T6)

Small areas of rough semi-improved grassland. These areas appear to have originated from lack of management of what were previously amenity grassland areas.

Target Note 7 (T7)

Area of rough semi-improved grassland located to the north-east of the survey area. Species within this grassland area include Perennial rye-grass (*Lolium perenne*), Cock's-foot (*Dactylis glomerata*), Common nettle (*Urtica dioica*) and Broad-leaved dock (*Rumex obtusifolius*). Scattered Bramble (*Rubus fruticosus* agg.) scrub is also present.

Target Note 8 (T8)

Scattered broad-leaved trees, predominantly Ash (*Fraxinus excelsior*).

Target Note 9 (T9)

Hawthorn (*Crataegus monogyna*) hedgerow. A small number of Sycamore (*Acer pseudoplatanus*) and Ash (*Fraxinus excelsior*) trees are located in the hedgerow.

Target Note 10 (T10)

Oak tree (*Quercus* spp.) worthy of retention.

APPENDIX 3

Photographs



**Photograph 1 – Main school building
(building 1)**



Photograph 2 – Interior of building 1



Photograph 3 – Building 2



Photograph 4 – Building 3



Photograph 5 – Deteriorated soffits/fascias on building 2



Photograph 6 – Hardstanding play area to west of site



Photograph 7 – Hardstanding play area to east of site



Photograph 8 – Turning area to north of site



Photograph 9 – Semi-improved grassland adjacent to building 1



Photograph 10 – Semi-improved grassland to south of site



Photograph 11 – Semi-improved grassland area to north-east of site



Photograph 12 – Trees in grassland area to north-east of site



Photograph 13 – Trees to south of building 2



Photograph 14 – Trees in hedgerow on south-eastern site boundary



Photograph 15 – Hedgerow on south-eastern site boundary

APPENDIX 4

Cofnod Record Search



Please read **Important Issues** and **Notes** before interpreting the following information.

Our Ref.	Client Name	Date Run	Your Ref.
E02647	J W Ecological Ltd	02/03/2012	1054

Site Name	Grid Reference
Ysgol y Wern	SJ2927346198

Category 1 Species (Species with European and/or UK Legal Protection, Section 42 [NERC] Species or UK BAP Priority Species) within 1000m - 150 records										
Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Myotis (Myotis Bat sp.)	SJ2945	14/08/2007	Wildwood Ecology Ltd			Site Name Withheld	Comments Withheld	D1374/001/01 (2775769)	Bonn, EPS, WCA5	1
Nyctalus noctula (Noctule Bat/Ystlum Mawr)	SJ2945	13/08/2007	Wildwood Ecology Ltd			Site Name Withheld	Comments Withheld	D1374/001/01 (2775767)	Bern, Bonn, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Pipistrellus pipistrellus (Common Pipistrelle/Ystlum Lleiaf)	SJ2945	13/08/2007	Wildwood Ecology Ltd			Site Name Withheld	Comments Withheld	D1374/001/01 (2775766)	Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Pipistrellus pygmaeus (Soprano Pipistrelle)	SJ2945	14/08/2007	Wildwood Ecology Ltd			Site Name Withheld	Comments Withheld	D1374/001/01 (2775770)	Bonn, EPS, S42, UKBAP, WCA5, LBAP[ANG, DEN, FLI, GWY, SNP]	1
Erinaceus europaeus (West European Hedgehog/Draenog)	SJ296463	19/08/2003	Anon	2		2, Hill Street, Rhos, Wrexham	Alive.	D0971/001/01 (825828)	S42, UKBAP, LBAP[ANG, CON, FLI, GWY]	4
Pipistrellus pipistrellus (Common Pipistrelle/Ystlum Lleiaf)	SJ2945 (Estimated from Map)	07/08/1992	Anon			Site Name Withheld		D1049/001/02 (683930)	Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ2988846104 (GPS)	19/08/2003	Jan Wilkinson	0 Adult Male, 0 Adult Female,		Pond SLH42 - Satellite 2, Johnstown		D1125/001/03 (1857658)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ2989246121	Before 01/04/2007	Anon			Stryt Las a'r Hafod SSSI - Stryt Las SSSI		D1125/001/03 (1857850)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ298461	1996	Matthew Ellis			Site Name Withheld		D0140/002/01 (1932971)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Arvicola amphibius (European Water Vole/Llygoden Bengron y Dwr)	SJ298459	27/04/1999	Karen Bowen					D0121/001/02 (2495951)	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ298459	2 records, in 1992 and 01/12/2002	Martin Howorth; Anon	131- 591		OTH:SA:08:2002; Stryt Las a'r Hafod SSSI - Stryt Las SSSI	110 in gully pots 1999, Howarth.	D1317/001/01 D1125/001/03	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ298460	1996	Matthew Ellis			Site Name Withheld		D0140/002/01 (1932969)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Lissotriton vulgaris (Smooth Newt/Madfall Ddwr Gyffredin)	SJ298464	2 records, both in 1984	Anon			RUABON		D1076/001/01	WCA5, LBAP[CON, DEN, FLI]	3
Rana temporaria (Common Frog/Llyffant Melyn)	SJ298464	2 records, both in 1984	Anon			RUABON		D1076/001/01	HDir, WCA5, LBAP[ANG, CON, FLI]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ298464	2 records, both in 1984	Anon			RUABON		D1076/001/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ2988946065	Before 01/04/2007	Anon			Stryt Las a'r Hafod SSSI - Stryt Las SSSI		D1125/001/03 (1857852)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Lissotriton vulgaris (Smooth Newt/Madfall Ddwr Gyffredin)	SJ29894607 (Estimated (Centroid of Site Name))	02/05/2001	Matthew Ellis, Clare Christian	+		SSSI: Stryt Las a'r Hafod; Satellite Pools	Torch survey of 3 ponds.	D0269/026/01 (2697547)	WCA5, LBAP[CON, DEN, FLI]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ29894607 (Estimated (Centroid of Site Name))	02/05/2001	Matthew Ellis, Clare Christian	18 ; 27 Male; 14 Female		SSSI: Stryt Las a'r Hafod; Satellite Pools	Torch survey of 3 ponds.	D0269/026/01 (2700973)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ298460	1996	Matthew Ellis			Site Name Withheld		D0140/002/01 (1932970)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ2990846078	Before 01/04/2007	Anon			Stryt Las a'r Hafod SSSI - Stryt Las SSSI		D1125/001/03 (1857851)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ2990146045 (GPS)	19/08/2003	Jan Wilkinson	0 Adult, 0 Adult Female, 0 Ad		Pond SLH41 - Satellite 1, Johnstown		D1125/001/03 (1857659)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Pipistrellus (<i>Pipistrellus</i> Bat sp.)	SJ2946 (<i>Estimated (Centroid of Site Name)</i>)	28/07/2004	Matthew Ellis		Bat Roost	Site Name Withheld	Comments Withheld	D1306/001/01 (2665857)	Bonn, EPS, WCA5	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ29904603 (Estimated (Centroid of Site Name))	3 records, between 29/04/1998 and 06/05/1998	Anon	488 Male; 136 Female, 298, 55 Male; 12 Female		SSSI: Stryt Las a'r Hafod	Torch survey of 4 ponds.	D0269/024/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	1
Pipistrellus pipistrellus (<i>Common Pipistrelle/Ystlum Lleiaf</i>)	SJ2946 (<i>Estimated from Map</i>)	05/09/1996	Anon			Site Name Withheld		D1049/001/02 (683894)	Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
Emberiza schoeniclus (Reed Bunting/Bras y Cyrs)	SJ299460	03/02/2007	Kylie Jones	1 Adult	field record	Stryt Las Country Park	male.	D1398/002/01 (3377937)	Bern, S42, UKBAP, WBAm[RSPB], LBAP[CON, DEN, FLI, GWY]	
Lissotriton vulgaris (Smooth Newt/Madfall Ddwr Gyffredin)	SJ299460	10/06/1997	Emily Meilleur			Stryd Las		D0229/002/01 (2104387)	WCA5, LBAP[CON, DEN, FLI]	1
Myotis (<i>Myotis</i> Bat sp.)	SJ2946	06/05/2008	Karl Martin	6 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369182)	Bonn, EPS, WCA5	1
Myotis brandtii (<i>Brandt's Bat/Ystlum Brandt</i>)	SJ2946	06/05/2008	Karl Martin	1 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369184)	Bern, Bonn, EPS, HDir, WCA5, LBAP[DEN, FLI, GWY]	1
Myotis daubentonii (<i>Daubenton's Bat/Ystlum y Dwr</i>)	SJ2946	06/05/2008	Karl Martin	33 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369185)	Bern, Bonn, EPS, HDir, WCA5, LBAP[CON, DEN, FLI, GWY]	1
Myotis nattereri (<i>Natterer's Bat/Ystlum Natterer</i>)	SJ2946	06/05/2008	Karl Martin	3 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369186)	Bern, Bonn, EPS, HDir, WCA5, LBAP[CON, DEN, FLI, GWY, SNP]	1
Nyctalus noctula (<i>Noctule Bat/Ystlum Mawr</i>)	SJ2946	06/05/2008	Karl Martin	1 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369178)	Bern, Bonn, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Pipistrellus (<i>Pipistrellus</i> Bat sp.)	SJ2946	06/05/2008	Karl Martin	71 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369181)	Bonn, EPS, WCA5	1
Pipistrellus pipistrellus (<i>Common Pipistrelle/Ystlum Lleiaf</i>)	SJ2946	06/05/2008	Karl Martin	14 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369179)	Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Pipistrellus pygmaeus (<i>Soprano Pipistrelle</i>)	SJ2946	06/05/2008	Karl Martin	244 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369180)	Bonn, EPS, S42, UKBAP, WCA5, LBAP[ANG, DEN, FLI, GWY, SNP]	1
Plecotus auritus (<i>Brown Long-eared Bat/Ystlum Hirglust</i>)	SJ2946	06/05/2008	Karl Martin	8 Adult	aural bat detector	Site Name Withheld	Comments Withheld	D1398/001/01 (3369183)	Bern, Bonn, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ299460 (Estimated (Centroid of Site Name))	13 records, between 10/06/1997 and 27/04/1999	Anon; Emily Meilleur	: 5 to 21, Female: 3 to 15, Male: 8 to 15		SSSI: Stryt Las a'r Hafod; Stryd Las	Comments were removed due to excessive length. For more information contact Cofnod.	D0269/029/01 D0229/002/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	1
Arvicola amphibius (European Water Vole/Llygoden Bengron y Dwr)	SJ2990045900	27/04/1999	C.C.W. Record		Positive sightings	Stryt Las		D1118/013/01 (694307)	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Lissotriton helveticus (Palmate Newt/Madfall Ddwr Balfog)	SJ29904590 (Estimated (Centroid of Site Name))	21/04/2005	David Groom, Jacinta Challinor, Matthew Ellis, Neil Smith	51		SSSI: Stryt Las a'r Hafod; Stryt Las	Torch survey.	D1314/004/01 (2698330)	WCA5, LBAP[ANG, CON, DEN, FLI]	1
Lissotriton vulgaris (Smooth Newt/Madfall Ddwr Gyffredin)	SJ29904590 (Estimated (Centroid of Site Name))	21/04/2005	David Groom, Jacinta Challinor, Matthew Ellis, Neil Smith	56		SSSI: Stryt Las a'r Hafod; Stryt Las	Torch survey.	D1314/004/01 (2697433)	WCA5, LBAP[CON, DEN, FLI]	1
Lissotriton vulgaris (Smooth Newt/Madfall Ddwr Gyffredin)	SJ29904590	12/05/1992	Anon - Herpetofauna Consultants International					D1122/002/01 (1271220)	WCA5, LBAP[CON, DEN, FLI]	3
Triturus cristatus (<i>Great Crested Newt/Madfall Ddwr Gribog</i>)	SJ299459	1970	Matthew Ellis			Site Name Withheld	Comments Withheld	D0140/002/01 (1932968)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Lissotriton vulgaris (Smooth Newt/Madfall Ddwr Gyffredin)	SJ299459 (Estimated Centroid of Site Name))	2 records, on 02/05/2001 and 21/04/2005	Matthew Ellis, Clare Christian; Matthew Ellis, Jacinta Challinor, David Groom, N. Smith	+, 42 Male; 14 Female		SSSI: Stryt Las a'r Hafod; Main Pool; SSSI: Stryt Las a'r Hafod; Pond SLH40	Torch survey of 1 pond.	D0269/026/01 D1320/003/01	WCA5, LBAP[CON, DEN, FLI]	1
Rana temporaria (Common Frog/Llyffant Melyn)	SJ299459 (Estimated Centroid of Site Name))	2 records, on 02/05/2001 and 21/04/2005	Matthew Ellis, Clare Christian; Matthew Ellis, Jacinta Challinor, David Groom, N. Smith	+, + Larvae		SSSI: Stryt Las a'r Hafod; Main Pool; SSSI: Stryt Las a'r Hafod; Pond SLH40	Torch survey of 1 pond.	D0269/026/01 D1320/003/01	HDir, WCA5, LBAP[ANG, CON, FLI]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ299459 (Estimated Centroid of Site Name))	3 records, between 29/04/1998 and 02/05/2001	Matthew Ellis, Clare Christian; Anon	19 ; 99 Male; 16 Female, 298, 488 Male; 136 Female		SSSI: Stryt Las a'r Hafod; Main Pool; SSSI: Stryt Las a'r Hafod; Stryt Las	Torch survey of 1 pond; Torch survey of 4 ponds.	D0269/026/01 D0269/029/01	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	1
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ299459	12/05/1992	Anon - Herpetofauna Consultants International			Stryt Las a'r Hafod SSSI - Stryt Las SSSI		D1125/001/03 (1857506)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ2995545941 (GPS)	19/08/2003 - 03/09/2003	Jan Wilkinson	0 Adult, 0 Adult Female, 0 Ad		Pond SLH40 - Main 1, Johnstown		D1125/001/03 (1857660)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Natrix natrix (Grass Snake/Neidr y Gwair)	SJ299458	Aug 2000	Anon			Styt Glas, Johnstown		D1076/001/01 (451965)	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
Natrix natrix (Grass Snake/Neidr y Gwair)	SJ299458	Aug 2000	Alastair Thompson	1 adult		Stryt Las, Johnstown	Wet grassland - old mineral working. Habitat: Grassland.	D0035/002/01 (2502121)	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4
Rana temporaria (Common Frog/Llyffant Melyn)	SJ2987345650 (GPS)	17/09/2003	Jan Wilkinson	Present		Pond SLH50 - Brandy Cottage		D1045/001/01 (2091522)	HDir, WCA5, LBAP[ANG, CON, FLI]	3
Pipistrellus pipistrellus (Common Pipistrelle/Ystlum Lleiaf)	SJ2845 (Estimated from Map)	1994	Anon	40		Site Name Withheld		D1049/001/02 (683690)	Bern, Bonn, EPS, HDir, S42, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	3
Chiroptera (Bat sp./Ystlum)	SJ2845 (Estimated from Map)	06/07/1995	Anon			Site Name Withheld		D1049/001/02 (683166)	WCA5	3
Myotis mystacinus (Whiskered Bat/Ystlum Barfog)	SJ2847 (Estimated from Map)	25/08/2000	Anon	1		Site Name Withheld		D1049/001/02 (683470)	Bern, Bonn, EPS, HDir, WCA5, LBAP[DEN, FLI, GWY]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ3005245443	Before 01/04/2007	Anon			Gardden Hall		D1125/001/03 (1857984)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Arvicola amphibius (European Water Vole/Llygoden Bengron y Dwr)	SJ300470	24/05/1997	Anon at Ness YOC	1 None	None	Hafod Wood NR, Wrexham		D0969/001/03 (3514532)	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	1
Lutra lutra (European Otter/Dyfrgi)	SJ2845	16/03/2011	Philip Oliver	2 Droppings	Dung/Droppings/Frass/Pellet, etc.	Site Name Withheld	Comments Withheld	D1339/001/01 (2661709)	Bern, CITES, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	4
Pipistrellus (Pipistrellus Bat sp.)	SJ3045 (Estimated from Map)	05/06/2000	Anon			Site Name Withheld		D1049/001/02 (683551)	Bonn, EPS, WCA5	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ28634741	21/05/1992	Anon - Herpetofauna Consultants International	P		Llwyneinon Wood		D1125/001/03 (1857665)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ3072846188	1996	NEWW			Hafod Mitigation Ponds	See SSSI files.	D1125/001/03 (1857244)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Triturus cristatus (Great Crested Newt/Madfall Ddwr Gribog)	SJ3075046366	Before 01/04/2007	Anon			Hafod Mitigation Pools		D1125/001/03 (1857979)	Bern, EPS, HDir, S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, SNP, WRE]	3
Alcedo atthis (Common Kingfisher/Glas y Dorlan)	SJ2945	12/01/2008	Peter Lawton			Rhosllanerchrugog, Stryt Las		D1297/002/01 (3408485)	BDir, Bern, WBAm[RSPB], WCA1, LBAP[CON, DEN, FLI, GWY]	
Bucephala clangula (Common Goldeneye/Hwyaden Lygad-Aur)	SJ2945	02/12/2009	Steven Davies	1		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3408318)	BDir, Bonn, WCA1, LBAP[CON]	
Emberiza schoeniclus (Reed Bunting/Bras y Cyrs)	SJ2945	12/01/2008	Peter Lawton			Rhosllanerchrugog, Stryt Las		D1297/002/01 (3416824)	Bern, S42, UKBAP, WBAm[RSPB], LBAP[CON, DEN, FLI, GWY]	

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Falco tinnunculus</i> (Common Kestrel/Cudyll Coch)	SJ2945	03/06/2008	Peter Lawton	1		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3408424)	Bern, Bonn, CITES, S42, WBR[RSPB], LBAP[ANG, CON, DEN, FLI, GWY]	
<i>Larus ridibundus</i> (Black-headed Gull/Gwylan Benddu)	SJ2945	9 records, between 12/01/2008 and 02/12/2009	Peter Lawton; Steven Davies	30, 10, 40, 50, 99, 150, 41, 50		Rhosllanerchrugog, Stryt Las		D1297/002/01	BDir, S42, WBR[RSPB], LBAP[GWY]	
<i>Meles meles</i> (Eurasian Badger/Mochyn Daear)	SJ2945	2 records, on 01/11/2004 and 22/12/2006	Clwyd Badger Group (CBG)		Badger Sett		CBG Ref: E58.0. Please contact CBG for more details.; CBG Ref: E75.0.	D0059/001/01	BA, LBAP[CON, DEN, FLI, WRE]	3
<i>Passer domesticus</i> (House Sparrow/Aderyn y To)	SJ2945	2 records, on 02/02/2008 and 02/12/2009	Steven Davies; Peter Lawton	4		Rhosllanerchrugog, Stryt Las		D1297/002/01	S42, UKBAP, WBAm[RSPB], LBAP[CON, FLI, GWY]	
<i>Carduelis cabaret</i> (Lesser Redpoll)	SJ2845	28/04/2008	Teresa Wright	2		Penycae, E		D1297/002/01 (3415223)	S42, UKBAP, WBR[RSPB], LBAP[CON, DEN]	
<i>Falco tinnunculus</i> (Common Kestrel/Cudyll Coch)	SJ2845	6 records, between 02/02/2008 and 02/10/2008	Peter Lawton	1, 1, 1, 1, 2		Penycae, E		D1297/002/01	Bern, Bonn, CITES, S42, WBR[RSPB], LBAP[ANG, CON, DEN, FLI, GWY]	
<i>Fringilla montifringilla</i> (Brambling/Pinc y Mynydd)	SJ2845	10/02/2008	Peter Lawton	1		Penycae, E		D1297/002/01 (3405919)	WCA1, LBAP[CON]	
<i>Larus ridibundus</i> (Black-headed Gull/Gwylan Benddu)	SJ2845	5 records, between 14/12/2008 and 14/02/2009	Peter Lawton	3, 4, 1, 1, 20		Penycae, E		D1297/002/01	BDir, S42, WBR[RSPB], LBAP[GWY]	
<i>Passer domesticus</i> (House Sparrow/Aderyn y To)	SJ2845	28 records, between 28/01/2007 and 14/02/2009	Peter Lawton; Teresa Wright	: 1 to 9		Penycae, E		D1297/002/01	S42, UKBAP, WBAm[RSPB], LBAP[CON, FLI, GWY]	
<i>Turdus iliacus</i> (Redwing/Coch Dan Adain)	SJ2845	6 records, between 12/01/2008 and 13/01/2009	Peter Lawton	1, 6, 7, 20		Penycae, E		D1297/002/01	BDir, WBAm[RSPB], WCA1, LBAP[CON]	
<i>Turdus pilaris</i> (Fieldfare/Socan Eira)	SJ2845	3 records, between 12/01/2008 and 13/01/2009	Peter Lawton	5, 50		Penycae, E		D1297/002/01	BDir, WBAm[RSPB], WCA1, LBAP[CON]	
<i>Vanellus vanellus</i> (Northern Lapwing/Cornchwiglen)	SJ2845	30/04/2008	Peter Lawton			Penycae, E		D1297/002/01 (3416261)	BDir, Bonn, S42, UKBAP, WBR[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP]	
<i>Natrix natrix</i> (Grass Snake/Neidr y Gwair)	SJ3046	30/04/2009	Mick Brummage	2 adult males, 3 adult females		Hafod R1, Johnstown	2 adult males, 3 adult females.	D0035/002/01 (2502492)	S42, UKBAP, WCA5, LBAP[ANG, CON, DEN, FLI, GWY, SNP]	4

Category 2 Species (Global Red List, British Red Data Book, Nationally Rare & Scarce, Welsh Red and Amber Birds & Welsh Vascular Plant Red Data List, where these are not identified in Category 1) within 1000m - 129 records										
Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Hirundo rustica</i> (Barn Swallow/Gwennol)	SJ2915945908	13/08/2007	Wildwood Ecology Ltd			Pant Hill Farm	Nesting.	D1374/001/01 (2775768)	Bern, WBAm[RSPB], LBAP[ANG, CON, GWY]	1
<i>Anas platyrhynchos</i> (Mallard/Hwyaden Wylt)	SJ2990146045 (GPS)	19/08/2003	Jan Wilkinson	Present		Pond SLH41 - Satellite 1		D1045/001/01 (2090973)	BDir, Bonn, WBAm[RSPB], LBAP[CON, GWY]	3
<i>Cygnus olor</i> (Mute Swan/Alarch Dof)	SJ299460	10/06/1997	Emily Meilleur			Stryd Las		D0229/002/01 (2104389)	BDir, Bonn, WBAm[RSPB], LBAP[CON]	1
<i>Delichon urbicum</i> (House Martin/Gwennol y Bondo)	SJ299460	10/06/1997	Emily Meilleur			Stryd Las		D0229/002/01 (2104391)	Bern, WBAm[RSPB], LBAP[CON]	1
<i>Phylloscopus trochilus</i> (Willow Warbler/Telor yr Helyg)	SJ299460	10/06/1997	Emily Meilleur			Stryd Las		D0229/002/01 (2104390)	WBR[RSPB], LBAP[CON]	1
<i>Pyrhula pyrrhula</i> (Common Bullfinch/Coch y Berllan)	SJ299460	07/01/2009	Kylie Jones	1 Adult	field record	Stryt Las Country Park	male.	D1398/002/01 (3377936)	WBR[RSPB], LBAP[CON, DEN, FLI, GWY]	
<i>Anas platyrhynchos</i> (Mallard/Hwyaden Wylt)	SJ2995545941 (GPS)	19/08/2003 - 03/09/2003	Jan Wilkinson	Present		Pond SLH40 - Main 1		D1045/001/01 (2090974)	BDir, Bonn, WBAm[RSPB], LBAP[CON, GWY]	3
<i>Aythya fuligula</i> (Tufted Duck/Hwyaden Gopog)	SJ2995545941 (GPS)	19/08/2003 - 03/09/2003	Jan Wilkinson	Present		Pond SLH40 - Main 1		D1045/001/01 (2091001)	BDir, Bonn, WBAm[RSPB], LBAP[CON]	3
<i>Cygnus olor</i> (Mute Swan/Alarch Dof)	SJ2995545941 (GPS)	19/08/2003 - 03/09/2003	Jan Wilkinson	Present		Pond SLH40 - Main 1		D1045/001/01 (2091040)	BDir, Bonn, WBAm[RSPB], LBAP[CON]	3
<i>Aegithalos caudatus</i> (Long-tailed Tit/Titw Cynffon-Hir)	SJ2945	3 records, between 06/11/2008 and 02/03/2009	Peter Lawton	2, 6, 2		Rhosllanerchrugog, Stryt Las		D1297/002/01	WBAm[RSPB]	
<i>Anas platyrhynchos</i> (Mallard/Hwyaden Wylt)	SJ2945	10 records, between 12/01/2008 and 02/12/2009	Peter Lawton; Steven Davies	20, 10, 20, 20, 20, 31, 20, 14, 20		Rhosllanerchrugog, Stryt Las		D1297/002/01	BDir, Bonn, WBAm[RSPB], LBAP[CON, GWY]	
<i>Apus apus</i> (Common Swift/Gwennol Ddu)	SJ2945	03/06/2008	Peter Lawton	2		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3409586)	WBAm[RSPB]	

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Aythya fuligula</i> (Tufted Duck/Hwyaden Gopog)	SJ2945	9 records, between 12/01/2008 and 02/12/2009	Peter Lawton; Steven Davies	1, 2, 20, 25, 8, 2, 12, 40		Rhosllanerchrugog, Stryt Las		D1297/002/01	BDir, Bonn, WBAm[RSPB], LBAP[CON]	
<i>Cygnus olor</i> (Mute Swan/Alarch Dof)	SJ2945	03/06/2008	Peter Lawton	2		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3416142)	BDir, Bonn, WBAm[RSPB], LBAP[CON]	
<i>Delichon urbicum</i> (House Martin/Gwennol y Bondo)	SJ2945	03/06/2008	Peter Lawton	1		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3414681)	Bern, WBAm[RSPB], LBAP[CON]	
<i>Hirundo rustica</i> (Barn Swallow/Gwennol)	SJ2945	03/06/2008	Peter Lawton	1		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3404515)	Bern, WBAm[RSPB], LBAP[ANG, CON, GWY]	
<i>Larus argentatus</i> (Herring Gull/Gwylan y Penwaig)	SJ2945	5 records, between 12/01/2008 and 02/12/2009	Peter Lawton; Steven Davies	1, 6, 4, 6		Rhosllanerchrugog, Stryt Las		D1297/002/01	BDir, WBR[RSPB], LBAP[CON, GWY]	
<i>Larus canus</i> (Mew Gull/Gwylan y Gweunydd)	SJ2945	4 records, between 06/11/2008 and 02/12/2009	Peter Lawton; Steven Davies	1, 1, 1, 1		Rhosllanerchrugog, Stryt Las		D1297/002/01	BDir, WBR[RSPB]	
<i>Larus fuscus</i> (Lesser Black-backed Gull/Gwylan Gefnddu Leiaf)	SJ2945	02/12/2009	Steven Davies	5		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3415206)	BDir, WBAm[RSPB], LBAP[CON, GWY, SNP]	
<i>Periparus ater</i> (Coal Tit/Titw Penddu)	SJ2945	02/03/2009	Peter Lawton	1		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3406831)	Bern, WBAm[RSPB], LBAP[CON]	
<i>Pyrrhula pyrrhula</i> (Common Bullfinch/Coch y Berllan)	SJ2945	2 records, on 10/02/2009 and 02/12/2009	Steven Davies; Peter Lawton	3, 2		Rhosllanerchrugog, Stryt Las		D1297/002/01	WBR[RSPB], LBAP[CON, DEN, FLI, GWY]	
<i>Regulus regulus</i> (Goldcrest/Dryw Eurben)	SJ2945	06/11/2008	Peter Lawton	3		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3412868)	Bern, WBAm[RSPB], LBAP[CON]	
<i>Turdus philomelos</i> (Song Thrush/Bronfraith)	SJ2945	3 records, between 06/11/2008 and 02/03/2009	Peter Lawton; Steven Davies	1, 1, 1		Rhosllanerchrugog, Stryt Las		D1297/002/01	BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	
<i>Aegithalos caudatus</i> (Long-tailed Tit/Titw Cynffon-Hir)	SJ2845	10 records, between 07/03/2007 and 14/12/2008	Peter Lawton	9, 7, 3, 3, 2, 2, 2, 2, 3, 3		Penycae, E		D1297/002/01	WBAm[RSPB]	
<i>Apus apus</i> (Common Swift/Gwennol Ddu)	SJ2845	2 records, on 27/04/2008 and 30/04/2008	Teresa Wright; Peter Lawton	2		Penycae, E		D1297/002/01	WBAm[RSPB]	
<i>Delichon urbicum</i> (House Martin/Gwennol y Bondo)	SJ2845	2 records, both on 21/04/2007	Peter Lawton	1, 1		Penycae, E		D1297/002/01	Bern, WBAm[RSPB], LBAP[CON]	
<i>Hirundo rustica</i> (Barn Swallow/Gwennol)	SJ2845	5 records, between 25/04/2007 and 30/04/2008	Peter Lawton	2, 2, 2, 2		Penycae, E		D1297/002/01	Bern, WBAm[RSPB], LBAP[ANG, CON, GWY]	
<i>Periparus ater</i> (Coal Tit/Titw Penddu)	SJ2845	20 records, between 25/01/2009 and 03/12/2009	Peter Lawton	: 1 to 4		Penycae, E		D1297/002/01	Bern, WBAm[RSPB], LBAP[CON]	
<i>Pyrrhula pyrrhula</i> (Common Bullfinch/Coch y Berllan)	SJ2845	12 records, between 25/04/2007 and 14/02/2009	Peter Lawton	2, 2, 1, 2, 1, 1, 1, 2, 1, 1		Penycae, E		D1297/002/01	WBR[RSPB], LBAP[CON, DEN, FLI, GWY]	
<i>Sturnus vulgaris</i> (Common Starling/Drudwen)	SJ2845	4 records, between 05/04/2008 and 13/01/2009	Teresa Wright; Peter Lawton	6, 4, 30		Penycae, E		D1297/002/01	BDir, WBR[RSPB], LBAP[CON, FLI, GWY]	
<i>Turdus philomelos</i> (Song Thrush/Bronfraith)	SJ2845	19 records, between 06/11/2008 and 14/12/2008	Peter Lawton	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 2, 1, 1, 1		Penycae, E		D1297/002/01	BDir, WBAm[RSPB], LBAP[ANG, CON, DEN, FLI, GWY, SNP, WRE]	

Category 3 Species (LBAP Species not identified under Categories 1 & 2, Locally Important species as specified by local experts) within 1000m - 230 records										
Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Eurhynchium praelongum</i> (Common Feather-moss)	SJ290457 (Estimated from Map)	30/07/1996	Dan Guest, Stuart Smith	3 DOMIN (Estimate)	field record	Pant Fields		D0820/001/02 (567026)	LBAP[CON]	3
<i>Eurhynchium praelongum</i> (Common Feather-moss)	SJ291456 (Estimated from Map)	30/07/1996	Dan Guest, Stuart Smith	4 DOMIN (Estimate)	field record	Pant Fields		D0820/001/02 (567027)	LBAP[CON]	3
<i>Cordulegaster boltonii</i> (Golden-ringed Dragonfly/Gwas Neidr Eurdorchog)	SJ29874604	1998	Paul Day	1 Adult		Stryt las, Johnstown, Ditch N and next to main pond	Dead specimen.	D0067/001/01 (640642)	LBAP[SNP]	3
<i>Cyprinus carpio</i> (Common Carp/Cerpyn)	SJ2990146045 (GPS)	19/08/2003	Jan Wilkinson	Present		Pond SLH41 - Satellite 1		D1045/001/01 (2091041)	LBAP[CON]	3
<i>Rutilus rutilus</i> (Roach/Rhufell)	SJ2990146045 (GPS)	19/08/2003	Jan Wilkinson	1		Pond SLH41 - Satellite 1		D1045/001/01 (2091547)	LBAP[CON]	3
<i>Tinca tinca</i> (Tench/Sgreten)	SJ2990146045 (GPS)	19/08/2003	Jan Wilkinson	Present		Pond SLH41 - Satellite 1		D1045/001/01 (2091620)	LBAP[CON]	3
<i>Eurhynchium praelongum</i> (Common Feather-moss)	SJ290455 (Estimated from Map)	30/07/1996	Dan Guest, Stuart Smith	3 DOMIN (Estimate)	field record	Pant Fields		D0820/001/02 (567028)	LBAP[CON]	3
<i>Rhinanthus minor</i> (Yellow-rattle/Cribell Felen)	SJ290455 (Estimated from Map)	30/07/1996	Dan Guest, Stuart Smith	4 DOMIN (Estimate)	field record	Pant Fields		D0820/001/02 (565799)	LBAP[ANG]	3
<i>Schoenoplectus lacustris</i> (Common Club-rush/Llafrwynen)	SJ2995545941 (GPS)	19/08/2003 - 03/09/2003	Jan Wilkinson	Present		Pond SLH40 - Main 1		D1045/001/01 (2091577)	LBAP[GWY]	3
<i>Eurhynchium praelongum</i> (Common Feather-moss)	SJ292454 (Estimated from Map)	30/07/1996	Dan Guest, Stuart Smith	2 DOMIN (Estimate)	field record	Pant Fields		D0820/001/02 (567029)	LBAP[CON]	3

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
Rhinanthus minor (Yellow-rattle/Cribell Felen)	SJ292454 (Estimated from Map)	30/07/1996	Dan Guest, Stuart Smith	4 DOMIN (Estimate)	field record	Pant Fields		D0820/001/02 (565800)	LBAP[ANG]	3
Anax imperator (Emperor Dragonfly/Ymerawdwr)	SJ299458	15/07/2005	Bryan Formstone	2 Adult		Stryt las, Johnstown		D0067/001/01 (637891)	LBAP[SNP]	3
Enallagma cyathigerum (Common Blue Damselfly/Mursen Las Gyffredin)	SJ299458	2 records, on 18/07/1987 and 15/07/2005	R. Merritt; Bryan Formstone	Present Adult, 1 Adult		Rhosllanerchrugog; Stryt las, Johnstown		D0067/001/01	LBAP[SNP]	3
Enallagma cyathigerum (Common Blue Damselfly/Mursen Las Gyffredin)	SJ299458 (Estimated (Centroid of Site Name))	18/07/1987	Merritt, R			Rhosllanerchrugog		D0158/003/01 (2507336)	LBAP[SNP]	1
Ischnura elegans (Blue-tailed Damselfly/Mursen Dinlas Gyffredin)	SJ299458 (Estimated (Centroid of Site Name))	18/07/1987	Merritt, R			Rhosllanerchrugog		D0158/003/01 (2507609)	LBAP[SNP]	1
Ischnura elegans (Blue-tailed Damselfly/Mursen Dinlas Gyffredin)	SJ299458	2 records, on 18/07/1987 and 15/05/2005	R. Merritt; Bryan Formstone	Present Adult, 1 Adult		Rhosllanerchrugog; Stryt las, Johnstown		D0067/001/01	LBAP[SNP]	3
Orthetrum cancellatum (Black-tailed Skimmer/Picellwr Tinddu)	SJ299458	15/07/2005	Bryan Formstone	1 Adult		Stryt las, Johnstown		D0067/001/01 (637892)	LBAP[SNP]	3
Sympetrum striolatum (Common Darter/Gwäell Gyffredin)	SJ299458	2 records, on 18/07/1987 and 15/07/2005	Bryan Formstone; R. Merritt	1 Adult, Present Adult		Stryt las, Johnstown; Rhosllanerchrugog		D0067/001/01	LBAP[SNP]	3
Sympetrum striolatum (Common Darter/Gwäell Gyffredin)	SJ299458 (Estimated (Centroid of Site Name))	18/07/1987	Merritt, R			Rhosllanerchrugog		D0158/003/01 (2508488)	LBAP[SNP]	1
Rhinanthus minor (Yellow-rattle/Cribell Felen)	SJ293453 (Estimated from Map)	30/07/1996	Dan Guest, Stuart Smith	5 DOMIN (Estimate)	field record	Pant Fields		D0820/001/02 (565801)	LBAP[ANG]	3
Carduelis carduelis (European Goldfinch/Nico)	SJ2945	4 records, between 12/01/2008 and 02/02/2008	Peter Lawton; Steven Davies	2, 2		Rhosllanerchrugog, Stryt Las		D1297/002/01	Bern, LBAP[ANG, CON]	
Carduelis chloris (European Greenfinch/Llinos Werdd)	SJ2945	3 records, between 06/11/2008 and 02/12/2009	Steven Davies; Peter Lawton	5		Rhosllanerchrugog, Stryt Las		D1297/002/01	Bern, LBAP[CON]	
Cyanistes caeruleus (Blue Tit/Titw Tomos Las)	SJ2945	7 records, between 06/11/2008 and 18/01/2009	Peter Lawton; Steven Davies	1, 1, 4, 1, 5		Rhosllanerchrugog, Stryt Las		D1297/002/01	Bern, LBAP[CON]	
Dendrocopos major (Great Spotted Woodpecker/Cnocell Fraith Fwyaf)	SJ2945	12/01/2008	Peter Lawton			Rhosllanerchrugog, Stryt Las		D1297/002/01 (3413147)	Bern, LBAP[CON]	
Motacilla alba subsp. yarrellii (Pied Wagtail/Siglen Fraith)	SJ2945	02/02/2008	Peter Lawton	2		Rhosllanerchrugog, Stryt Las		D1297/002/01 (3416535)	Bern, LBAP[CON]	
Motacilla cinerea (Grey Wagtail/Siglen Lwyd)	SJ2945	2 records, on 18/01/2009 and 10/02/2009	Peter Lawton	1, 2		Rhosllanerchrugog, Stryt Las		D1297/002/01	Bern, LBAP[CON]	
Parus major (Great Tit/Titw Mawr)	SJ2945	02/12/2009	Steven Davies			Rhosllanerchrugog, Stryt Las		D1297/002/01 (3413554)	Bern, LBAP[CON]	
Prunella modularis (Hedge Accentor/Llwyd y Gwrych)	SJ2945	3 records, between 03/06/2008 and 06/11/2008	Peter Lawton; Steven Davies	2, 1		Rhosllanerchrugog, Stryt Las		D1297/002/01	Bern, LBAP[CON]	
Buteo buteo (Common Buzzard/Bwncath)	SJ2845	3 records, between 12/01/2008 and 14/12/2008	Peter Lawton	2, 1		Penycae, E		D1297/002/01	Bonn, CITES, LBAP[CON]	
Carduelis carduelis (European Goldfinch/Nico)	SJ2845	32 records, between 06/01/2007 and 02/02/2008	Peter Lawton; Teresa Wright	: 1 to 9		Penycae, E		D1297/002/01	Bern, LBAP[ANG, CON]	
Carduelis chloris (European Greenfinch/Llinos Werdd)	SJ2845	20 records, between 14/02/2009 and 03/12/2009	Peter Lawton	: 1 to 5		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
Carduelis spinus (Eurasian Siskin/Pila Gwyrd)	SJ2845	14 records, between 12/01/2008 and 14/02/2009	Peter Lawton; Teresa Wright	3, 1, 2, 1, 1, 6, 2, 1, 2, 3, 3, 6		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
Certhia familiaris (Eurasian Treecreeper/Dringwr Bach)	SJ2845	2 records, on 25/10/2008 and 05/11/2008	Peter Lawton	1		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
Corvus corax (Common Raven/Cigfran)	SJ2845	02/10/2008	Peter Lawton	1		Penycae, E		D1297/002/01 (3408925)	LBAP[CON]	
Cyanistes caeruleus (Blue Tit/Titw Tomos Las)	SJ2845	29 records, between 14/12/2008 and 25/01/2009	Peter Lawton; Teresa Wright	: 1 to 4		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
Dendrocopos major (Great Spotted Woodpecker/Cnocell Fraith Fwyaf)	SJ2845	3 records, between 08/07/2008 and 10/02/2009	Peter Lawton	2, 1, 1		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
Motacilla alba subsp. yarrellii (Pied Wagtail/Siglen Fraith)	SJ2845	02/10/2008	Peter Lawton	1		Penycae, E		D1297/002/01 (3416556)	Bern, LBAP[CON]	
Motacilla cinerea (Grey Wagtail/Siglen Lwyd)	SJ2845	2 records, on 22/10/2008 and 01/11/2008	Peter Lawton	1, 1		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
Parus major (Great Tit/Titw Mawr)	SJ2845	26 records, between 14/02/2009 and 03/12/2009	Peter Lawton; Teresa Wright	: 1 to 4		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
Phylloscopus collybita (Common Chiffchaff/Siff-Siaff)	SJ2845	30/04/2008	Peter Lawton			Penycae, E		D1297/002/01 (3408020)	LBAP[CON]	
Prunella modularis (Hedge Accentor/Llwyd y Gwrych)	SJ2845	26 records, between 01/11/2008 and 14/02/2009	Peter Lawton	: 1 to 4		Penycae, E		D1297/002/01	Bern, LBAP[CON]	

Taxon Name	Grid Reference	Date	Recorder(s)	Abundance	Record Type	Site Name	Comments	Dataset ID	Lists	V
<i>Sitta europaea</i> (Wood Nuthatch/Delor y Cnau)	SJ2845	13 records, between 27/01/2007 and 03/12/2009	Peter Lawton; Teresa Wright	2, 2, 1, 1, 2, 1, 2, 2, 1, 1, 2		Penycae, E		D1297/002/01	Bern, LBAP[CON]	
<i>Strix aluco</i> (Tawny Owl/Tylluan Frech)	SJ2845	22/12/2008	Peter Lawton			Penycae, E		D1297/002/01 (3417410)	Bern, CITES, LBAP[CON]	
<i>Sylvia atricapilla</i> (Blackcap/Telor Penddu)	SJ2845	6 records, between 03/03/2007 and 07/03/2007	Peter Lawton	1, 1, 1, 1, 1, 1		Penycae, E		D1297/002/01	LBAP[CON]	
<i>Potamogeton berchtoldii</i> (Small Pondweed/Dyfrllys Bach)	SJ3046 (Supplied by Original Recorder (Checked))	24/06/2002 - 27/06/2002	Nick Stewart			SSSI: Stryt Las a'r Hafod; West of Hafod House		D0269/022/01 (2714132)	LBAP[GWY]	1
<i>Ranunculus trichophyllus</i> (Thread-leaved Water-crowfoot/Crafanc-y-Frân Feinddail)	SJ3046 (Supplied by Original Recorder (Checked))	24/06/2002 - 27/06/2002	Nick Stewart			SSSI: Stryt Las a'r Hafod; West of Hafod House		D0269/022/01 (2677679)	LBAP[GWY], LI[VC52]	1
<i>Amblystegium varium</i> (Willow Feather-moss)	SJ3045	07/04/2008	British Bryological Society meeting			Johnstown		D1075/001/02 (1737222)	LBAP[CON, FLI]	3
<i>Campylium stellatum</i> var. <i>protensum</i> (A Moss)	SJ3045	07/04/2008	British Bryological Society meeting			Johnstown		D1075/001/02 (1739601)	LBAP[CON]	3
<i>Eurhynchium praelongum</i> (Common Feather-moss)	SJ3045	07/04/2008	British Bryological Society meeting			Johnstown		D1075/001/02 (1742068)	LBAP[CON]	3

Statutory Sites intersecting 1000m buffer	SAC: Johnstown Newt Sites (508m), SSSI: STRYT LAS A'R HAFOD (508m)
Wildlife Sites within 1000m (C=Candidate)	None
NWWT Reserves within 1000m	None
RSPB Reserves within 1000m	None
RIGS within 1000m	None
Habitat type at application grid reference	Buildings
Habitat type(s) within 1000m	Amenity Grassland, Arable, Bare Ground, Buildings, Dense Scrub, Ephemeral/Short Perennial, Improved Grassland, Marshy Grassland, Not Accessed Land, Planted Broad-leaved Woodland, Refuse Tip, Semi-improved Neutral Grassland, Semi-natural Broad-leaved Woodland, Spoil, Standing Water, Tall Ruderal Herb, Track
Ancient Woodland within 1000m	None

Important Issues

1. Usage of the above information is governed by Cofnod's **Terms and Conditions of Data Release** (available from Cofnod on request).
2. Records shown in bold typeface are sensitive species records. In this public version of the original report, the resolution of sensitive species grid references have been reduced and site names and comments have been removed.
3. 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 at Cofnod; Cofnod cannot guarantee the accuracy of supplied data; copyright of records remains with the original recorder.

Notes

This report should be used in conjunction with any relevant maps, where these are supplied.

Cofnod uses a search system which reports species (usually high priority or protected species) within a specified search radius or buffer. Where required a search will also include high priority 'Mobile Species', such as bats, otters, amphibians and certain invertebrates, which lie outside the specified search radius. These species are highlighted on the report with an **asterisk**. They have been selected as 'Mobile Species' as their territory (possibly due to foraging activity or life cycle) could intersect with the search radius. The list of 'Mobile Species', invasive non-native plant species and species categories used in Cofnod's reporting system can be found at <http://www.cofnod.org.uk/Enquiries.aspx> under the 'Species Categories' tab.

Records with 4 figure grid references are displayed as 1km squares on any relevant maps. They are listed separately in reports and highlighted in grey *italic* script.

Please note that while we hold Wales Raptor Study Group data for North East Wales we are only permitted to release it to a limited number of trusted partners. We can provide contact details if you would like to contact the Raptor Study Group directly to request species information.

Sites - Designated Sites and non-designated Wildlife Sites within 50m of the grid reference are highlighted in red. Wildlife Sites which remain unconfirmed by the relevant Local Authority are given 'Candidate' status and are displayed with the (c) suffix. The following reasons for candidate status apply: 1. Anglesey and Flintshire Wildlife Sites were identified by survey but have not been formally confirmed. 2. Conwy and Gwynedd Wildlife Sites were identified by survey and air photos and remain candidate until evaluated using selection criteria.

Dataset ID - All species records within the reports include Dataset ID codes, which can be used to find the relevant Metadata, using the **Data We Hold** page on the Cofnod website (www.cofnod.org.uk/DataWeHold.aspx). The number below the Dataset ID is the individual record ID. Please quote this if you need more information on a specific record.

'V' column - Record Verification Level. The following abbreviations apply: **1**: Unassessed, **2**: Unconfirmed, **3**: Considered Correct by Cofnod, **4**: Considered Correct by Expert. Dataset Categories and Record Verification Levels are explained in more detail within Cofnod's policy on Data Quality, available from our website.

Maps - This report should be used in conjunction with any relevant maps, where these are supplied. Where Statutory protected sites (e.g. SSSI, SAC, SPA) are displayed on Cofnod maps, more details can be obtained from Countryside Council for Wales. (Visit their website at <http://www.ccw.gov.uk/interactive-maps/official-maps-search.aspx>) Where a Phase 1 Habitat map has been supplied, this illustrates habitats mapped by CCW as part of their Habitat Survey of Wales 1979 to 1997. A separate legend is also supplied.

Lists

BA - Protection of Badgers Act, **BDir** - EU Birds Directive, **Bern** - The Bern Convention on the Conservation of European Wildlife and Natural Habitats, **Bonn** - The Bonn Convention on the Conservation of Migratory Species of Wild Animals, **CCWP** - CCW Priority Species List, **CITES** - Convention on International Trade in Endangered Species, **EPS** - European Protected Species, **HDir** - EU Habitats Directive, **LI** - Locally Important Species, identified by the County Recorder as being of particular importance in the specified Vice-County (see below for a list of Vice-Counties) N.B: Only available for certain species groups and certain areas, **LBAP** - Local Biodiversity Action Plan, **RD1** - Red Data Book listing based on IUCN guidelines, **RD2** - Red Data Book listing not based on IUCN guidelines (Nationally Rare and Scarce), **S42** - Natural Environment and Rural Communities Act 2006 (Section 42), **UKBAP** - UK Biodiversity Action Plan Priority Species, **WBAm[RSPB]** - Birds of Conservation Concern 2002-07 - Welsh Amber listed birds (not based on IUCN criteria), **WBR[RSPB]** - Birds of Conservation Concern 2002-07 - Welsh Red listed birds (not based on IUCN criteria), **WCA1** - Wildlife & Countryside Act 1981 Schedule 1, **WCA5** - Wildlife & Countryside Act 1981 Schedule 5, **WCA8** - Wildlife & Countryside Act 1981 Schedule 8, **WVP** - IUCN Threat Listing of Welsh Vascular Plants

Abbreviations

ANG - Isle of Anglesey, **CON** - Conwy, **DEN** - Denbighshire, **FLI** - Flintshire, **GWY** - Gwynedd, **SNP** - Snowdonia National Park, **WRE** - Wrexham, **LBAP** - Local Biodiversity Action Plan, **NWWT** - North Wales Wildlife Trust, **RSPB** - Royal Society for the Protection of Birds, **RIGS** - Regionally Important Geodiversity Sites, **WS** - Wildlife Site

Vice-Counties

48 - Meirionethshire, **49** - Caernarfonshire, **50** - Denbighshire, **51** - Flintshire, **52** - Anglesey

Contact Us

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